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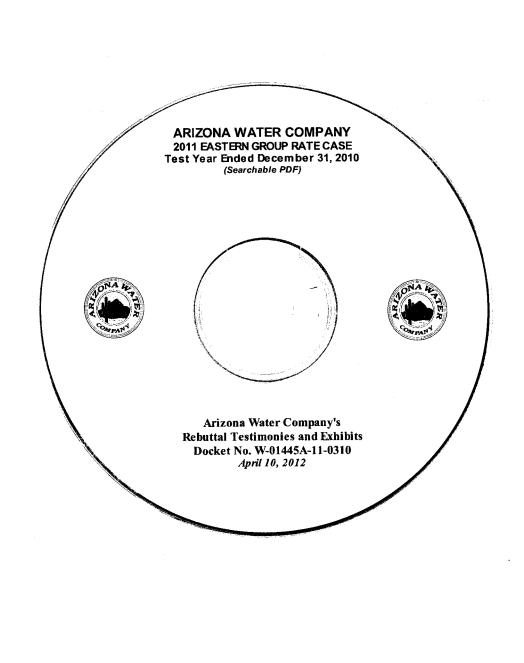
ARIZONA WATER COMPANY 1 RECEIVED Robert W. Geake (No. 009695) 2 Vice President and General Counsel 3805 N. Black Canvon Highway 2012 APR 10 P 4: 15 Phoenix, Arizona 85015-5351 3 Telephone: (602) 240-6860 Arizona Corporation Commission AL CORP COMMISSION 4 **DOCKETED** DOCKET CONTROL Steven A. Hirsch (No. 006360) Stanley B. Lutz (No. 021195) 5 APR 1 0 2012 BRYAN CAVE, LLP Two North Central Avenue, Suite 2200 6 **DOCKETED BY** MA Phoenix, AZ 85004 Telephone: (602) 364-7000 7 Attorneys for Arizona Water Company 8 9 BEFORE THE ARIZONA CORPORATION COMMISSION 10 IN THE MATTER OF THE APPLICATION DOCKET NO. W-01445A-11-0310 11 OF ARIZONA WATER COMPANY, AN ARIZONA CORPORATION, FOR A 12 **NOTICE OF FILING** DETERMINATION OF THE FAIR VALUE REBUTTAL TESTIMONY OF ITS UTILITY PLANT AND PROPERTY. 13 AND FOR ADJUSTMENTS TO ITS RATES 14 AND CHARGES FOR UTILITY SERVICE FURNISHED BY ITS EASTERN GROUP 15 AND FOR CERTAIN RELATED APPROVALS. 16 17 18 Applicant, Arizona Water Company, hereby files the Rebuttal Testimony of Fredrick K. 19 Schneider, Joseph D. Harris, Joel M. Reiker, Thomas M. Zepp and Pauline M. Ahern in the 20 above-captioned docket. DATED this 10th day of April, 2012. 21 22 ARIZONA WATER COMPANY 23 By: Robert W. Deak 24 25 Robert W. Geake Vice President and General Counsel 26 ARIZONA WATER COMPANY Post Office Box 29006 27 Phoenix, Arizona 85038-9006

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8	Docketing Supervisor Docket Control Division		
9 10	Arizona Corporation Commission 1200 West Washington Street Phoenix, Arizona 85007		
11	A copy of the foregoing was mailed this 10th day of April, 2012 to:		
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DOCKET W-01445A-11-0310



ARIZONA WATER COMPANY



Docket No. W-01445A-11-0310

2011 RATE HEARING

For Test Year Ending 12/31/10

PREPARED

REBUTTAL TESTIMONY & EXHIBITS

OF

PAULINE M. AHERN

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ARIZONA WATER COMPANY

Rebuttal Testimony of Pauline M. Ahern

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I. Introduction

Q. PLEASE STATE YOUR NAME, EMPLOYER AND OCCUPATION.

A. My name is Pauline M. Ahern. I am a Principal of AUS Consultants. My business address is 155 Gaither Drive, Suite A, Mt. Laurel, New Jersey 08054.

Q. PLEASE SUMMARIZE YOUR PROFESSIONAL EXPERIENCE AND EDUCATIONAL BACKGROUND.

I have offered expert testimony on behalf of investor-owned utilities before twenty-six state regulatory commissions and state tax commissions on rate of return issues, including but not limited to common equity cost rate, fair rate of return, capital structure issues, credit quality issues and the like. I am a graduate of Clark University, Worcester, MA, where I received a Bachelor of Arts degree with honors in Economics in 1973. In 1991, I received a Master of Business Administration with high honors and a concentration in finance from Rutgers University. The details of these appearances and my educational background, presentations I have given as well as articles I have co-authored are shown in Appendix A supplementing this testimony.

On a monthly basis, I also calculate and maintain the American Gas Association ("A.G.A.") Gas Index under contract with the A.G.A., which serves as the benchmark against which the performance of the American Gas Index Fund ("AGIF") is measured. The A.G.A. Gas Index and AGIF are a market capitalization weighted index and fund, respectively, comprised of the common stocks of the publicly traded corporate members of the A.G.A.

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I am also the Publisher of AUS Utility Reports, responsible for supervising the production, publication, distribution and marketing of its various reports.

I am a member of the Society of Utility and Regulatory Financial Analysts ("SURFA") where I serve on its Board of Directors, having served two terms as President, from 2006 – 2008 and 2008 – 2010. Previously, I held the position of Secretary/Treasurer from 2004 – 2006. In 1992, I was awarded the professional designation "Certified Rate of Return Analyst" ("CRRA") by SURFA, which is based upon education, experience and the successful completion of a comprehensive written examination.

I am also an associate member of the National Association of Water Companies, serving on its Finance/Accounting/Taxation Committee; a member of the Energy Association of Pennsylvania, formerly the Pennsylvania Gas Association; and a member of the American Finance and Financial Management Associations.

WHAT IS THE PURPOSE OF YOUR TESTIMONY IN THIS PROCEEDING? Q.

The purpose is to provide testimony on behalf of Arizona Water Company ("AWC" or the "Company") in response to Arizona Corporation Commission ("ACC" or the "Commission") Utilities Division ("Staff") witness Jeffrey M. Michlik and Residential Utility Consumer Office ("RUCO") witness William A. Rigsby relative to their positions on the Company's proposed Distribution System Improvement Charge ("DSIC"). In addition, I will comment upon the adequacy of Staff witness John A. Cassidy's recommended common equity cost rate of 9.1% and RUCO witness Rigsby's recommended common equity cost rate of 9.3%.

Q. HAVE YOU PREPARED EXHIBITS TO SUPPORT YOUR REBUTTAL **TESTIMONY?**

A. Yes. They have been marked as Exhibit PMA-1 through Exhibit PMA-11.

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II. Summary

PLEASE SUMMARIZE YOUR REBUTTAL TESTIMONY. Q.

My rebuttal testimony demonstrates that Mr. Michlik's opinion of regulatory lag Α. and his recommended rejection of the Company's proposed DSIC mechanism will perpetuate the Company's current distressed financial condition and impinge upon its ability to finance and construct infrastructure needed to provide safe and reliable service to the public.

My rebuttal testimony also demonstrates the fallacy of Mr. Rigsby's reasons for recommending rejection of the Company's proposed DSIC. The magnitude of the Company's need to replace and repair infrastructure is anything but ordinary and is very similar to the Company's Arsenic Cost Recovery Mechanism ("ACRM"), especially given the fact that AWC has been directed by the ACC to reduce water losses below 10%. My rebuttal testimony also demonstrates that the DSIC, and DSIC-like mechanisms, are widely accepted and adopted throughout the U.S. and are considered credit supportive by two of the major bond/credit rating agencies, Standard & Poor's ("S&P") and Moody's. Such mechanisms, being credit supportive, are conducive to the maintenance of the integrity of invested capital and enable utilities to attract needed new capital on reasonable terms consistent with the judicial standards for a fair rate of return established in the Hope¹ and Bluefield² decisions. My rebuttal testimony also responds to Mr. Rigsby's assertion that AWC has not "proven that it would not be able to ensure safe and reliable water service or achieve cost recovery absent the DSIC" by my citing to Chairman Robert Powelson of the Pennsylvania Public Utility Commission ("PPUC"), who testified before the Pennsylvania House of Representatives that such cost-recovery mechanisms are necessary to "ensure

Federal Power Commission v. Hope Natural Gas Co., 320 U.S. 591 (1944).

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sustainable practices in promoting needed capital investment and cost-effective rates."

Finally, my rebuttal testimony demonstrates that neither Staff witness John A. Cassidy's recommended 9.1% common equity cost rate, nor Mr. Rigsby's recommended 9.3% common equity cost rate adequately reflect the cost of common equity for either the water utility industry in general, or AWC specifically. The issue of sufficient common equity returns is especially critical in light of the Company's anticipated near-term capital expenditure needs.

III. ACC Staff Witness Michlik's Comments on DSIC

- Q. MR. MICHLIK STATES ON PAGE 33 OF HIS DIRECT TESTIMONY AT LINE 21, THAT "A PRIMARY CONCERN IS THAT A DSIC ALTERS THE BALANCE OF RATEMAKING LAGS." DO YOU AGREE?
 - No. Regulatory lag occurs during the time between the incurrence of a utility capital expenditure or expense and the time when the utility can begin to earn a return on and of the capital investment or recovery of the expense incurred. Such a lag can result in the permanent impairment of the utility's ability to earn its authorized return on its invested capital. Partial mitigation of such regulatory lag, through the adoption of a DSIC mechanism, will improve the capital attractiveness of AWC, improve its service quality and reliability, and provide for more moderate, gradual rate increases, as the Company will be able to limit rate increases to its customers to smaller, more regularly timed increases as opposed to larger ones spread out over longer periods of time, as noted by AWC witness Joseph D. Harris in his direct testimony at page 20, lines 21 24.

Improved service quality and reliability is critical to the water utility industry in general, and to AWC specifically. Although the American Society of Civil Engineers' ("ASCE") concern is primarily focused on municipal infrastructure, its comments relative to water utility infrastructure apply equally to investor-owned

water infrastructure. The ASCE has given a grade of D- to the U.S. water infrastructure systems. It is widely recognized that such infrastructure is in dire need of repair and replacement. In its 2009 Report Card for America's Infrastructure, excerpted in Exhibit PMA-1, the ASCE states the following (See Exhibit PMA-1, Pg. 12):

Drinking water systems provide a critical public health function and are essential to life, economic development, and growth. Disruptions in service can hinder disaster response and recovery efforts, expose the public to water-borne contaminants, and cause damage to roadways, structures, and other infrastructure, endangering lives and resulting in billions of dollars in losses.

In addition, in its press release announcing the proposal to draft rules for public comment on the implementation of a DSIC, the New Jersey Board of Public Utilities ("BPU") stated:

Critical water distribution components form the basis of a functional and modern water infrastructure system, and enhance the safety, reliability, system flows, and quality of water while also improving its pressure and conservation.

To reject the adoption of the Company's proposed DSIC mechanism will continue to perpetuate the negative impact of regulatory lag upon the Company's already compromised financials, as described in Mr. Harris' direct testimony at page 15, line 13 through page 16, line 2, impinging upon its ability to meet its obligation of providing safe and reliable water service to its customers, as also discussed by Mr. Harris on page 20, line 19 through page 21, line 9 of his direct testimony. The presence of regulatory lag is particularly crucial for water utilities, including AWC, as water utilities are the most capital intensive utility industry relative to the electric, combination electric and gas and the natural gas utility industries. Moreover, the capital intensity of the water utility industry is

exacerbated by the magnitude of the capital expenditure needs anticipated over the next 20 years.

Q. PLEASE DISCUSS THE ANTICIPATED CAPITAL EXPENDITURE NEEDS OF THE WATER UTILITY INDUSTRY.

A. Not only is the water utility industry historically capital intensive, it is expected to incur significant capital expenditure needs over the next 20 years. Prior to the recent economic and capital market turmoil, S&P noted:³

Standard & Poor's expects the already capital-intensive water utility industry to become even more so over the next several years. Due to the aging pipeline infrastructure and more stringent quality standards, the U.S. Environmental Protection Agency's [sic] (EPA) foresees a need for \$277 billion to upgrade and maintain U.S. water utilities through 2022, with about \$185 billion going toward infrastructure improvements. In addition, about \$200 billion will be needed for wastewater applications, which suggests increased capital spending to be a long-term trend in this industry.

In line with these trends, many companies have announced aggressive capital spending programs. Forecast capital spending primarily focuses on infrastructure replacements and growth initiatives. Over the past five years, capital spending has been equivalent to about three times its depreciation expense. However, companies are now forecasting spending to be at or above four times depreciation expense over the intermediate term. For companies in regulatory jurisdictions that provide timely cost recovery for capital expenditures, the increased spending is likely to have a minimal effect on financial metrics and ratings. However, companies in areas without these mechanisms, earnings, and cash flow could be negatively affected by the increased spending levels, which over the longer term could harm a company's overall credit profile.

Due to the high level of capital spending, U.S. investor-owned water utilities do not generate positive free cash flow. This, coupled

Standard & Poor's, <u>Credit Outlook For U.S. Investor-Owned Water Utilities Should Remain Stable in 2008</u> (January 31, 2008) 2, 4.

with the forecast increase in capital spending over the intermediate term, will require additional access to capital markets. We expect rated water companies to have enough financial flexibility to gain that access. Ratings actions shouldn't result from this increased market activity because we expect companies to use a balanced financing approach, which should maintain debt near existing levels.

The EPA states the following:4

The survey found that the total nationwide infrastructure need is \$334.8 billion for the 20-year period from January 2007 through December 2026. With \$200.8 billion in needs over the next 20 years, transmission and distribution projects represent the largest category of need. This result is consistent with the fact that transmission and distribution mains account for most of the nation's water infrastructure. The other categories, in descending order of need are: treatment, storage, source and a miscellaneous category of needs called "other". The large magnitude of the national need reflects the challenges confronting water systems as they deal with an infrastructure network that has aged considerably since these systems were constructed, in many cases, 50 to 100 years ago.

The 2009 Report Card for America's Infrastructure⁵, published by the ASCE, states the following (page 9 of Exhibit PMA-1):

The nation's drinking-water systems face staggering public investment needs over the next 20 years. Although America spends billions on infrastructure each year, drinking water systems face an annual shortfall of at least \$11 billion in funding needed to replace aging facilities that are near the end of their useful life and to comply with existing and future federal water regulations. The shortfall does not account for any growth in the demand for drinking water over the next 20 years.²

[&]quot;Fact Sheet: "EPA's 2007 Drinking Water Infrastructure Needs Survey and Assessment", United States Environmental Protection Agency, Office of Water, February 2009, 1.

²⁰⁰⁹ American Society of Civil Engineers, Report Card for America's Infrastructure 2009.

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The Company is estimating a cost of approximately \$108 million for infrastructure replacements in its Eastern and Western Groups for the purpose of reducing water loss, which represents an increase of more than 36% over 2010 net plant on a Company wide basis and more than 66% of the Company's total capitalization, as discussed on page 16, line 27 through page 17, line 1 of Mr. Harris' direct testimony.

Q. PLEASE DISCUSS THE BUSINESS RISKS FACING THE WATER UTILITY INDUSTRY IN GENERAL.

Water is essential to life, and unlike electricity or natural gas, water is the only utility product that is ingested. Consequently, water quality and reliability is of paramount importance to the health and well-being of customers and is, therefore, subject to additional health and safety regulations. Also, unlike many electric and natural gas utilities, water companies serve a production function in addition to the delivery functions served by electric and gas utilities.

Water utilities obtain supply from wells, aquifers, surface water reservoirs, streams and rivers, or through water rights. Throughout the years, well supplies and aquifers have been environmentally threatened, with historically minor purification treatment giving way to major well rehabilitation, treatment or replacement. Simultaneously, environmental water quality standards have tightened considerably, requiring multiple treatments. In addition, drought, water source overuse, runoff, regulatory response to threatened species/habitat protection and other factors are limiting supply availability. As for water rights, their lives are typically finite with renewability uncertain. In the course of procuring water supplies and treating water so that it complies with Safe Drinking Water Act standards, water utilities have an ever-increasing responsibility to be stewards of the environment from which supplies are drawn, in order to preserve and protect those essential natural resources.

Electric and natural gas companies, where transmission and distribution is separate from generation, generally do not produce the electricity or natural gas which they transmit and distribute. In contrast, water utilities are typically vertically engaged in the entire process of acquiring supply, production, treatment and distribution of water. Hence, water utilities require significant capital investment in not only the sources of supply and production (wells and treatment facilities), but also in transmission and distribution systems, both to serve additional customers and to replace aging systems, creating a major risk facing the water and wastewater utility industry.

<u>Value Line Investment Survey</u>⁶ ("<u>Value Line"</u>) observes the following about the water utility industry:

As time goes by many already aging water infrastructures grow older and need repair, or perhaps complete overhauls. These costs have soared into the hundreds of millions of dollars and are not likely to subside anytime soon, without repercussions. A more business-friendly regulatory environment is offsetting some of the burden, but expenses related to doing business are eating away at profit margins.

Consequently, because the water and wastewater industry is much more capital-intensive than the electric, natural gas or telephone industries, the investment required to produce a dollar of revenue is greater. For example, as shown on page 1 of Exhibit PMA-2, it took \$3.83 of net utility plant on average to produce \$1.00 in operating revenues in 2010 for the water utility industry as a whole. As noted in Company witness William M. Garfield's Direct Testimony at page 10, lines 14 through 18, AWC is even more capital intensive than the average water utility, as it took \$7.60 of utility plant (\$5.68 relative to net utility

⁶ Value Line Investment Survey, January 20, 2012.

plant) to produce \$1.00 in operating revenues in 2010. In contrast, for the electric, combination electric and gas and natural gas utility industries, on average it took only \$2.16, \$1.70 and \$1.27, respectively, to produce \$1.00 in operating revenues in 2010. The greater capital intensity of water utilities is not a new phenomenon either, as water utilities have exhibited a consistently and significantly greater capital intensity relative to electric, combination electric and gas and natural gas utilities during the ten years ended 2010, as also shown on page 1 of Exhibit PMA-2. As financing needs have increased over the last decade, the competition for capital from traditional sources has increased, making the need to maintain financial integrity and the ability to attract needed new capital increasingly important. Because investor-owned water and wastewater utilities typically do not receive federal funds for infrastructure replacement, the challenge to investor-owned water and wastewater utilities is exacerbated and their access to financing is restricted, thus increasing risk.

The National Association of Regulatory Commissioners ("NARUC") has also highlighted the challenges facing the water and wastewater industry stemming from its capital intensity. NARUC's Board of Directors adopted the following resolution (Exhibit PMA-3) in July 2005⁷ specifically citing the DSIC as a best regulatory practice:

WHEREAS, To meet the challenges of the water and wastewater industry which may face a combined capital investment requirement nearing one trillion dollars over a 20-year period, <u>the following policies and mechanisms were identified to help ensure sustainable practices in promoting needed capital investment and cost-effective rates:</u> a) the use of prospectively relevant test years; b) <u>the distribution system improvement charge;</u> c) construction work in progress; d) pass-through

[&]quot;Resolution Supporting Consideration of Regulatory Policies Deemed as 'Best Practices'", Sponsored by the Committee on Water. Adopted by the NARUC Board of Directors, July 27, 2005.

adjustments; e) staff-assisted rate cases; f) consolidation to achieve economies of scale; g) acquisition adjustment policies to promote consolidation and elimination of non-viable systems; h) a streamlined rate case process; i) mediation and settlement procedures; j) defined timeframes for rate cases; k) integrated water resource management; l) a fair return on capital investment; and m) improved communications with ratepayers and stakeholders; and

WHEREAS, Due to the massive capital investment required to meet current and future water quality and infrastructure requirements, adequately adjusting allowed equity returns to recognize industry risk in order to provide a fair return on invested capital was recognized as crucial...

RESOLVED, That the National Association of Regulatory Utility Commissions (NARUC), convened in its July 2006 Summer Meetings in Austin, Texas, conceptually supports review and consideration of the innovative regulatory policies and practices identified herein as "best practices;" and be it further

RESOLVED, That NARUC recommends that economic regulators consider and adopt <u>as many as appropriate of the regulatory mechanisms identified herein as best practices...</u>

(emphasis added)

The water and wastewater utility industry also experiences lower relative depreciation rates. Lower depreciation rates, as one of the principal sources of internal cash flows for all utilities, mean that water and wastewater utility depreciation as a source of internally-generated cash is far less than for electric, natural gas or telephone utilities. Water and wastewater utilities' assets have longer lives and, hence, longer capital recovery periods. As such, water and wastewater utilities face greater risk due to inflation which results in a much higher replacement cost per dollar of net plant than for other types of utilities. As shown on page 2 of Exhibit PMA-2, water utilities experienced an average depreciation rate of 3.00% for 2010, with AWC experiencing a lower 2.2%

depreciation rate in 2010. In contrast, in 2010, the electric, combination electric and gas, natural gas or telephone industries, experienced average depreciation rates of 3.70%, 3.70% and 3.40%, respectively. As with capital intensity, the lower relative depreciation rates of water utilities is not a new phenomenon, as water utility depreciation rates have been consistently and significantly lower than those of the electric, combination electric and gas and natural gas utilities for the ten years ending 2010. Such low depreciation rates signify that the pressure on cash flows remains significantly greater for water utilities than for other types of utilities.

Water utility capital expenditures as large as those projected by the EPA and ASCE will require significant amounts of additional financing. The three sources typically used for financing are debt, equity (common and preferred) and cash flow. All three are intricately linked to the opportunity to earn a sufficient rate of return as well as the ability to achieve that return. Consistent with the previously cited <u>Hope</u> and <u>Bluefield</u> decisions, the return must be sufficient to maintain credit quality as well as enable the attraction of necessary new capital, be it debt or equity capital. If unable to raise debt or equity capital, the utility must turn to either retained earnings or free cash flow, both of which are directly linked to earning a sufficient rate of return. If either is inadequate, it will be nearly impossible for the utility to invest in needed infrastructure. Since all utilities typically experience negative free cash flows, it is clear that an insufficient rate of return can be financially devastating for a utility and for its customers, the ratepayers. Page 3 of Exhibit PMA-2 demonstrates that the free cash flows (funds from operations minus capital expenditures) of publicly-traded water utilities as a percent of total operating revenues has been consistently more negative than that of the electric, combination electric and gas and natural gas utilities for the ten years ended 2010. Magnifying the impact of water utilities'

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negative free cash flow position is a continued inability to achieve what may already be an insufficient authorized rate of return on common equity as will be discussed later. AWC's 2010 earned ROE of 5.1% is well below both the earned ROEs and the authorized ROEs for not only the water utility industry, but for the electric, combination electric and gas, and the gas utility industries.

Consequently, as with the previously-discussed capital intensity and depreciation rates, significant capital expenditures relative to net plant, the consistently and more significantly negative free cash flow relative to operating revenues of water utilities, indicate greater investment risk for water utilities relative to electric, combination electric and gas and natural gas utilities.

In view of the foregoing, it is clear that the water and wastewater utility industry's high degree of capital intensity, low depreciation rates and significant negative free cash flow, coupled with the need for substantial infrastructure capital spending, requires regulatory support in the form of adequate and timely rate relief, including sufficient authorized returns on common equity as recognized by NARUC, so that water and wastewater utilities will be able to successfully meet the challenges they face.

- Q. ARE THERE OTHER INDICATIONS THAT THE WATER UTILITY INDUSTRY
 AS A WHOLE EXHIBITS MORE INVESTMENT RISK THAN THE ELECTRIC,
 COMBINATION ELECTRIC AND GAS AND NATURAL GAS UTILITY
 INDUSTRIES?
 - Yes. Pages 4 through 13 of Exhibit PMA-2 present several such indications: total debt / earnings before interest, taxes, depreciation and amortization ("EBITDA"); funds from operations ("FFO") / total debt; funds from operations / interest coverage; before-income tax / interest coverage; earned returns on common equity ("ROE") and earned v. authorized ROEs for each utility industry for the ten years ended 2010. The increasing proportion of total debt to EBITDA

for the water utilities indicates significantly increasing and greater financial risk for water utilities, which began the most recent ten years below that of electric, combination electric and gas and natural gas utilities.

S&P evaluates total debt as a percentage of EBITDA and FFO as a percentage of debt in the bond / credit rating process. Page 4 of Exhibit PMA-2 shows that total debt / EBITDA has risen steadily for water utilities for the ten years ended 2010, dropping only slightly for 2010. Notwithstanding the decline in 2010, total debt / EBITDA is now higher than that for electric, combination electric and gas and natural gas utilities. Page 5 shows that FFO / total debt has steadily declined for water utilities over the decade ending 2010, while rising for the other utility groups. The consistently low level of FFO / total debt for the water utilities is a further indication of the pressures upon water utility cash flows and the increased relative investment risk which the water utility industry faces.

Pages 6 and 7 of Exhibit PMA-2 confirm the pressures upon both cash flows and income faced by water utilities. Page 6 shows that FFO / interest coverage for water, electric, combination electric and gas and natural gas utilities followed a similar pattern to FFO interest coverage for the ten years ended 2010. FFO interest coverage remained relatively consistent for water utilities, rising and falling between 2.0 and 3.0 times during the period. A similar pattern was exhibited by electric utilities. However, FFO / total debt for combination electric and gas as well as natural gas utilities rose during the ten years, exceeding that of water utilities significantly in 2009 and dropping back somewhat in 2010. Page 7 shows that before-income tax interest coverage for water utilities also remained relatively stable, falling below that of gas utilities in 2002 and below that of electric and combination electric and gas utilities between 2005 and 2006, where

Standard & Poor's "Criteria Methodology: Business Risk / Financial Risk Matrix Expanded", May 27, 2009

it remained for the remainder of the ten years. In 2010, in all likelihood due to the "Great Recession" and the economy's currently nascent, fragile recovery from it, before-income tax interest coverage for water, electric and combination electric and gas utilities has converged at slightly lower than 3.0 times, while natural gas utilities continue to enjoy a significantly greater before-income tax interest coverage of approximately 4.25 times in 2010. Once again, the consistency and relatively low level of interest coverage ratios for water utilities are further indications of the pressures upon cash flow which water utilities face, confirming greater investment risk for water utilities relative to electric, combination electric and gas and natural gas utilities.

A final indication of the relative investment risk of water utilities compared with electric, combination electric and gas and natural gas utilities are trends in earned and authorized ROEs. As shown on page 8 of Exhibit PMA-2, earned ROEs, on average, for water utilities have generally been below those of electric, combination electric and gas and natural gas utilities during the ten years ended 2010. They have consistently been lower for the last five years. However, such a comparison would not be complete without a comparison of earned ROEs with authorized ROEs, as shown on pages 9 through 13 of Exhibit PMA-2. authorized ROEs are those reported in AUS Utility Reports for the last month of each year representing the authorized ROEs in effect during the previous year, rather than the outcomes of rate cases decided during the year. Hence, these authorized ROEs represent the revenue requirements of each year which give rise to the earned ROEs in each year. Water utilities generally, consistently and dramatically earned far below their authorized ROEs, while electric and combination electric and gas utilities earned above their authorized ROEs in some years, and fall short in others. In contrast, natural gas utilities generally, consistently and dramatically earned above their authorized ROEs.

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Notwithstanding the closing of the gap between the average authorized ROEs for the various utility groups over the ten year period, for the majority of the period, water utilities have failed to earn their average authorized ROE, with earned ROEs significantly lower than authorized, a likely contributing factor to the greater risk indicated by the previously discussed coverage metrics.

As noted previously, AWC's 2010 earned ROE of 5.1% is well below both the earned ROEs and the authorized ROEs for not only the water utility industry but for the electric, combination electric and gas as well as the gas utility industries.

In addition, on a relative basis, water utilities on average are smaller in terms of market capitalization than electric, combination electric and gas and natural gas utilities, as demonstrated on page 13 of Schedule PMA-2, which shows the market capitalization of each utility for the ten years ended 2010. As noted by AWC witness Thomas M. Zepp on page 33, line 21 through page 34, line 2 of his direct testimony, AWC is significantly smaller than the average water company in his water utility sample.

Q. PLEASE EXPLAIN WHY UTILITY SIZE HAS A BEARING ON BUSINESS RISK.

It is conventional wisdom, supported by actual returns over time, that smaller companies tend to be more risky, causing investors to expect greater returns as compensation for that risk. Smaller companies are less able to cope with significant events which affect sales, revenues and earnings. For example, in general, the loss of revenues from a few larger customers would have a greater effect on a small company than on a much larger company with a larger, more diverse customer base. Moreover, smaller companies are generally less diverse in their operations as well as having less financial flexibility. In addition, the effect of extreme weather conditions, i.e., prolonged droughts or extremely wet

weather, will have a greater affect upon a small operating water utility than upon a larger, more geographically diverse company.

Further evidence of the risk effects of size include the fact that investors demand greater returns to compensate for the lack of marketability and liquidity of the securities of smaller firms. It is a basic financial principle that it is the use of funds invested and not the source of those funds, which gives rise to the risk of any investment. Therefore, because AWC's regulated jurisdictional rate base to which the overall cost of capital allowed by the Commission will be applied, the relevant risk reflected in the cost of capital must be that of AWC, including the impact of its small size on common equity cost rate.

In addition, Brigham¹⁰ states:

A number of researchers have observed that portfolios of small-firms have earned consistently higher average returns than those of large-firms stocks; this is called "small-firm effect." On the surface, it would seem to be advantageous to the small firms to provide average returns in a stock market that are higher than those of larger firms. In reality, it is bad news for the small firm; what the small-firm effect means is that the capital market demands higher returns on stocks of small firms than on otherwise similar stocks of the large firms. (italics added)

In view of all of the foregoing, it is clear that the investment risk of water utilities has increased over the last ten years, and that water utilities currently face greater investment risk relative to electric, combination electric and gas and natural gas utilities.

Brealey, Richard A. and Myers, Stewart C., <u>Principles of Corporate Finance</u> (McGraw-Hill Book Company, 1988) 173 198.

Brigham, Eugene F., Fundamentals of Financial Management, Fifth Edition (The Dryden Press, 1989) 623.

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IV. RUCO Witness Rigsby's Comments on DSIC

- Q. MR. RIGSBY RECOMMENDS THAT THE COMPANY'S PROPOSED DSIC BE REJECTED FOR FOUR REASONS. PLEASE COMMENT.
 - Mr. Rigsby provides these four reasons on page 4, line 16 through page 5, line 6 of his Direct Testimony. They are as follows: 1) "AWC is seeking recovery of routine plant improvements outside of a rate case that would normally be recovered in a general rate case proceeding"; 2) "the DSIC is a one-sided mechanism which works only in the interest of the shareholder"; 3) "there is no federal or state requirement mandating the types of routine plant additions that AWC seeks recovery for through the Company-proposed DSIC"; and 4) "[A]WC has not proven that it would not be able to ensure safe and reliable water service or achieve cost recovery absent the DSIC." I will comment on each of these reasons in turn.
- Q. DO YOU AGREE WITH MR. RIGSBY THAT A VALID REASON FOR REJECTING THE COMPANY PROPOSED DSIC IS THAT THE REPLACEMENTS AND IMPROVEMENTS ARE ROUTINE?
- A. No. While it is true that these improvements may be considered a part of doing business, the magnitude of the improvements, the Company's distressed financial condition and need to attract capital on reasonable terms in competition with other firms in the capital markets as well as the fact that the magnitude of the improvements is in response to the ACC's water loss reduction directive are all evidence that the improvements covered by the DSIC are anything but "routine."

The fact that such mechanisms are in place in eleven states (CA, CT, DE, IL, IN, MO, NH, NJ¹¹, NY, OH and PA) as shown on Exhibit PMA-4, are

In its November 9, 2011 press release announcing the proposal to draft rules for public comment upon a DSIC mechanism, the New Jersey Board of Public Utilities said "[p]lanned and accelerated investment in the aged

considered a "best practice" by NARUC itself (Exhibit PMA-3) and are considered by both Moody's and S&P, two of the major bond / credit rating agencies in the U.S., to be credit supportive are all independent indications that these improvements are anything but "routine."

Q. WHAT DO THE MAJOR RATING AGENCIES SAY ABOUT DSIC AND DSIC-LIKE MECHANISMS?

A. In Exhibit PMA-5, Moody's Global Infrastructure Finance December 2009 "Global Regulated Water Utilities" states the following on pages 11 and 26:

In the U.S., Moody's views each state individually and considers the various factors that affect the utilities' profitability, including the type of fixed- versus variable-rate design allowed, historically authorized ROEs, and the existence of riders or other mechanisms that permit recovery of operating and capital costs outside of a general rate case. (emphasis added) (p. 11)

In the U.S., there are federal guidelines related to water quality but utilities are also subject to regulation at the state level for quality, service, and, importantly, rate-setting. Moody's views each state individually and considers the various factors that affect the utilities profitability including, the type of fixed- versus variable-rate design allowed, historically authorized ROEs, and the existence of riders or other mechanism's that permit recovery of operating and capital costs outside of a general rate case. (emphasis added) (p. 26)

And on page 21, Moody's states the following:

...we view positively the financial flexibility enjoyed by a utility with limited capex requirements easily funded by internally generated cash flows.

In addition, S&P indicates that cost-recovery mechanisms, such as AWC's proposed DSIC mechanism, are supportive of credit quality which

water infrastructure will improve reliability of the distribution system, and create well paying jobs. By reducing the likelihood for emergency repairs due to failures, costs will also be reduced." Board President Lee A. Solomon further stated "We need to begin to rebuild the system now to take advantage of capital costs being at historic lows, to create well paying jobs for New Jerseyans and to ensure customers have safe and reliable water for generations to come."

enhances a utility's ability to attract necessary new capital. S&P notes on page 3 of its "Industry Report Card: U.S. Investor-Owned Water Utilities Successfully Navigate Turbulent Financial Markets" (July 10, 2009), found in Exhibit PMA-6:

We also expect commissions to grant infrastructure cost recovery mechanisms, under which companies recover capital investments outside of traditional rate cases. Such mechanisms currently exist in California, Connecticut, Delaware, Illinois, Indiana, Missouri, New York, Ohio and Pennsylvania. In addition, utilities in other states have included infrastructure cost recovery mechanisms in pending rate cases. <u>Standard & Poor's views these measures as positive for credit quality because they bring additional stability to cash flows.</u>

S&P has also stated the following on page 4 of its "Industry Report Card: A Stable Industry Outlook Supports Solid Ratings For U.S. Regulated Gas And Water Utilities" (April 19, 2011), found in Exhibit PMA-7:

Solid industry fundamentals support the stable outlooks

Regulation smoothes cash flows and supports cost recovery. State regulation will continue to be an influential factor for gas and water utility credit ratings in 2011. Many recent regulatory developments have been positive for credit quality. While average returns on equity (ROE) have trended slightly downward, several jurisdictions have granted enhanced rate-making mechanisms that help ensure greater cash flow stability. Most important are rate "decoupling" and distribution system investment charge (DSIC) mechanisms. Rate decoupling protects a utility's financial performance when conservation leads to lower consumption as it essentially makes the utility whole by increasing customer charges to compensate for lower usage. The DSIC program, prevalent in the water sector, allows for rate increases for nonrevenue producing investments to replace aging infrastructure outside of general rate proceedings. We expect capital spending in the water sector to continue on an upward trend due to a generally aging infrastructure and stringent water treatment and quality standards. The DSIC program would be especially helpful in our optimistic case if capital spending increased notably to avoid cash flow "lags," meaning that any revenue increases

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associated with today's capital spending would not need to wait until the next rate case. (emphasis added)

S&P is very clear that DSIC mechanisms are positive and credit enhancing. Although Moody's appears less clear on the subject, in my opinion, Moody's agrees that the existence of mechanisms such as the Company's proposed DSIC are supportive of improved credit quality, as such mechanisms allow utilities, including water utilities, to enjoy the financial flexibility to fund infrastructure replacements and improvements with a significant amount of internally generated cash. In addition, the judicial standards for a fair rate of return established in the *Hope* and *Bluefield* decisions, cited previously, require that the fair rate of return; 1) be comparable to the returns earned by other firms of similar risk, 2) assure confidence in the maintenance of financial integrity; 3) maintain and support credit quality, and 4) enable the utility to attract needed capital on reasonable terms in competition with firms of similar risk. Part of the fair rate of return, in my opinion, is the establishment of cost-recovery regulatory mechanisms, such as the Company's proposed DSIC mechanism, which will enhance AWC's financial integrity and enable it to attract needed new capital on reasonable terms.

Q. WHAT DO THE RATINGS AGENCIES SAY ABOUT SPECIFIC UTILITIES REGARDING SUCH MECHANISMS?

A. In Exhibit PMA-8 contains several S&P ratings reports for water utilities. A sampling of their comments are as follows:

S&P - Middlesex Water Co.:

"The DSIC was proposed in New Jersey, and the utility expects a decision by year-end 2011. <u>An approval would be credit supportive to the utility</u> (emphasis added) (p. 2 of Exhibit PMA-8)

S&P - Connecticut Water Service Inc.:

We view the DPUC's policies as <u>supportive of credit quality</u>, <u>including the surcharge mechanism</u>, <u>which allow the company to recover capital spending costs outside of traditional rate proceedings</u>. The utility has benefited from a surcharge mechanism that allows recovery of costs associated with the replacement of aging infrastructure by adding an additional \$2.2 million in revenues. (emphasis added) (p. 10 of Exhibit PMA-8)

S&P - California Water Service Co.:

The company's intermediate financial risk profile reflects stable regulated revenues, timely recovery of capital spending, and strong access to capital markets. The California Public Utilities Commission.

has granted a number of supportive cost-recovery mechanisms to allow the company to generate stable cash flows and recover costs with minimal regulatory lag.

we still view California as mildly supportive because it has the most regulatory mechanisms than any other state. (emphasis added) (pp. 14-15 of Exhibit PMA-8)

S&P - Pennsylvania-American Water Co.:

the Pennsylvania Public Utility Commission, allows the addition of capital spending to rate base outside of traditional rate proceedings. A favorable competitive position, a diverse and supportive regulatory environment, and a stable, above-average service territory support AWW's [American Water Works] excellent business risk profile. AWW's regulatory framework includes reasonable allowed returns on equity and various cost-recovery mechanisms, including incentives for infrastructure improvements. (emphasis added) (p. 19 of Exhibit PMA-8)

S&P - New Jersey-American Water Co.:

In addition, the company has proposed the addition of infrastructure capital spending to rate base outside of traditional rate proceedings in its current rate filing. A favorable competitive position, a diverse and supportive regulatory environment, and a stable, above-average service territory support AWW's [American Water Works] excellent business risk profile. AWW's regulatory framework includes reasonable allowed returns on equity and various cost-recovery mechanisms, including

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incentives for infrastructure improvements. (emphasis added) (p. 23 of Exhibit PMA-8)

S&P - Golden State Water Co. ("GSWC"):

The California Public Utilities Commission (CPUC) regulates GSWC. We view California as having a constructive regulatory environment for water companies. The CPUC has granted a number of supportive cost-recovery mechanisms that allow water utilities to generate stable cash flows and recover costs with minimal regulatory lag. . . the CPUC allows the utility to recover its capital investment between rate cases . . (emphasis added) (p. 27 of Exhibit PMA-8)

S&P - Aqua Pennsylvania Inc.:

Agua Pennsylvania's excellent business risk profile reflects a lowrisk monopoly water distribution business; a supportive regulatory environment with favorable cost-recovery mechanisms that enhance cash flow predictability. . . The Pennsylvania Public Utility Commission (PPUC) provided Agua Pennsylvania with favorable cost-recovery mechanism, including the addition of capital spending to rates outside the traditional rate proceedings. . . (emphasis added) (p. 27 of Exhibit PMA-8)

S&P - United Waterworks, Inc.:

State commissions oversee UWR's [United Water Resources] regulated operations, and supporting revenue and cash flow stability. . . Many of the company's operations benefit from cost-recovery mechanisms to recover capital spending outside of traditional rate proceedings. . (emphasis added) (p. 34 of Exhibit PMA-8)

S&P - San Jose Water Co.:

The California Public Utilities Commission (CPUC)(regulates San Jose Water, and has granted a number of supportive costrecovery mechanisms to allow it to generate stable cash flows and recover costs with minimal regulatory lag. (emphasis added) (p. 37 of Exhibit PMA-8)

S&P - The Baton Rouge Water Works Co.:

BRWW's excellent business risk profile reflects a low-risk monopoly water distribution business, a <u>supportive regulatory environment</u> <u>with favorable cost-recovery mechanisms that enhance cash flow predictability</u>. (emphasis added) (p. 27 of Exhibit PMA-8)

It is abundantly clear that S&P views DSIC mechanisms as credit supportive and enhancing, promoting cash flow stability. In addition, S&P views cash flow stability as key to superior business risk profiles and enhanced bond / credit ratings, all of which enhance a utility's ability to attract needed new capital on reasonable terms in competition with companies of similar risk.

- Q. PLEASE COMMENT UPON MR. RIGSBY'S SECOND REASON FOR HIS RECOMMENDATION THAT THE COMPANY'S PROPOSED DSIC BE REJECTED.
 - Mr. Rigsby's second reason for recommending the rejection of AWC's proposed DSIC is because, in his opinion, it "is a one-sided mechanism which works only in the interest of the shareholder." This is illogical and untrue for several reasons. First, as discussed previously in this rebuttal testimony, such mechanisms enhance the reliability and quality of water service through improved infrastructure which directly benefits customers. Such mechanisms will also help to lower operating costs in the long-term as the amount of lost water is reduced as a result of improved infrastructure. Also, mechanisms help to alleviate rate shock through gradual, small, regularly timed increases and not large increases at longer intervals. As Chairman Robert Powelson stated in his testimony before the Pennsylvania House of Representatives' Consumer Affairs Committee on April 28, 2011 (Exhibit PMA-9) relative to new ratemaking methods being considered in Pennsylvania:

By reducing regulatory lag and incenting investment in infrastructure, this <u>legislation will ensure that the utility</u> <u>infrastructure in the Commonwealth will be updated in an</u>

<u>expeditious manner, resulting in a safer and more reliable</u> <u>utility system.</u> (p. 3 of Exhibit PMA-9)

Relative to a DSIC mechanism. Chairman Powelson stated:

Another alternative ratemaking method that House Bill 1294 would allow the PUC to consider is an automatic adjustment charge that enables utilities to recover certain infrastructure improvement costs between base rate cases through a surcharge on customers' bills. This surcharge is often called a Distribution System Improvement Charge (DSIC) by the water and natural gas industry, and a Collection System Infrastructure Charge (CSIC) by the wastewater industry. These surcharges ensure the least possible rate impact on customers by spreading out over time the cost of replacing and enhancing Pennsylvania's utility infrastructure. (emphasis added) (p. 4 of Exhibit PMA-9)

Chairman Powelson also made a point of stating on page 5 of his testimony that the council of State Governments has included DSIC in its model legislation.

Most importantly, Chairman Powelson testified on the benefits to ratepayers (customers) of a DSIC mechanism when he stated:

In addition, the DSIC and CSIC will provide ratepayers with improved service quality and greater rate stability. By replacing aging infrastructure at an accelerated pace, there will be fewer main breaks, less frequent service interruptions, increased safety, and lower levels of unaccounted for natural gas and wastewater. The DSIC saves costs, not only in reducing frequency of rate cases, but by incenting capital investment to replace aging infrastructure. The infrastructure replacement encouraged by the DSIC would also help create hundreds of jobs - utility positions and pipeline contractors – needed to support the infrastructure replacement program. In light of today's difficult financial markets. DSIC and CSIC are the type of innovative regulatory policies expected as rating agencies tighten their ratings benchmarks and are a key element in maintaining access to capital markets on reasonable terms. (emphasis added) (pp. 6-7 of Exhibit PMA-9)

- Q. PLEASE COMMENT UPON MR. RIGSBY'S THIRD "REASON" FOR HIS RECOMMENDATION THAT THE COMPANY'S PROPOSED DSIC BE REJECTED.
- A. Mr. Rigsby's third reason for recommending the rejection of AWC's proposed DSIC is because "there is no federal or state requirement mandating the types of routine plant additions that AWC seeks recovery for through the Company-proposed DSIC". I disagree with this statement, as the ACC has directed AWC to reduce its water losses to less than 10% throughout its systems as noted by Mr. Garfield in his direct testimony at page 6, lines 13 14. Such a reduction cannot be accomplished without infrastructure repair and replacement. In this way, the requested DSIC is no different than the ACRM. The reduction of arsenic was mandated by a governmental authority, the Environmental Protection Agency, under the Safe Drinking Water Act and the request for a DSIC is, in part, in response to the ACC's directive to reduce water losses. Hence, Mr. Rigsby's third point of reasoning is incorrect.
- Q. PLEASE COMMENT UPON MR. RIGSBY'S FOURTH "REASON" FOR HIS RECOMMENDATION THAT THE COMPANY'S PROPOSED DSIC BE REJECTED.
- A. Mr. Rigsby's fourth reason for recommending the rejection of AWC's proposed DSIC is because AWC "has not proven that it would not be able to ensure safe and reliable water service or achieve cost recovery absent the DSIC." It is abundantly clear from the discussion regarding DSIC mechanisms enhancing safe and reliable water service previously in this rebuttal testimony, throughout the Company's direct testimony and in the exhibits accompanying this rebuttal testimony, that safe and reliable water service can be potentially compromised without such a mechanism.

In view of all the foregoing, including the Company's direct testimony regarding DSIC, it is my opinion that the DSIC mechanism should be adopted by the ACC as it will enhance the ability of AWC to provide safe and reliable water service, help reduce the Company's water losses, promote gradualism in rate increases and, finally, enhance the Company's financial position thus enhancing its financial integrity and its ability to attract needed new capital at reasonable costs.

- V. The Need for a Sufficient Authorized Rate of Return on Common Equity
- Q. WHY IS IT PARTICULARLY CRITICAL THAT THE COMPANY BE AUTHORIZED A SUFFICIENT RATE OF RETURN ON COMMON EQUITY IN THIS PROCEEDING?
- A. The judicial standards for a fair rate of return established in the <u>Hope</u> and <u>Bluefield</u> decisions cited above, that the return be sufficient to maintain credit quality as well as enable the utility to attract new capital, are directly related to the Company's ability to undertake the level of capital expenditures it anticipates. This means that a DSIC mechanism is only part of the picture, as its benefits are meaningful only to the extent AWC's full cost of equity is reflected in rates. It is therefore necessary to authorize a DSIC in *conjunction* with a sufficient rate of return on common equity to enable the Company to raise the capital required to undertake these capital expenditures while maintaining its financial integrity.
- Q. WHAT ARE THE BENEFITS TO THE COMPANY OF BEING ALLOWED THE OPPORTUNITY TO EARN A SUFFICIENT ROE?
- A. The benefit to the Company of being allowed the opportunity to earn a sufficient ROE is that it provides the Company with improved cash flow, thus improving its creditworthiness as previously discussed, and the ability to improve its retained earnings balance which, in turn, will allow AWC to issue less long-term debt than would otherwise be necessary. If the Company needs to issue more long-term

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debt than otherwise, because the allowed ROE is insufficient, its financial risk will increase as well as both the cost of debt and its cost of common equity. This is consistent with the basic financial principle of risk and return, i.e., that the greater the perceived risk, the greater the investor required return.

As explained by Mr. Harris in his direct testimony at page 15, lines 19 – 22, the Company's ability to issue new long-term debt to fund its infrastructure replacement program is already restricted because rising costs and declining customer sales have put pressure on AWC's ability to meet the minimum interest coverage provision of its General Mortgage Bond Indenture. It is therefore essential that AWC be allowed the opportunity to earn a sufficient ROE. Mr. Harris further notes on lines 24 - 27 on page 15 of his direct testimony, that the Company's infrastructure replacement program, which is "needed to ensure the integrity of its water distribution system," will increase the Company's debt, and, hence, financial risk, while increasing costs that "cannot be recovered under current rates." He concludes at page 15, line 27 through page 16, line 2, that AWC's "much-needed infrastructure replacement program cannot be undertaken without a change in the way these costs are recovered." In my opinion, the Company cannot undertake this Infrastructure replacement program unless it is allowed the opportunity to earn a sufficient ROE and the requested DSIC is adopted.

Q. IN YOUR OPINION, WHAT IS A SUFFICIENT ROE?

Without doing a complete rate of return study myself, I cannot recommend a specific ROE for AWC. However, Dr. Zepp's recommended ROE of 12.5% provides a reasonable, if not conservative, opportunity provided that AWC is able to earn its allowed ROE, for the Company to reduce the amount of long-term debt it needs to raise, while improving cash flows and providing additional retained earnings. To illustrate the effect of earning a sufficient ROE on the

Company's cash flows and its ability to fund infrastructure replacements in this proceeding, the difference in revenue requirement between Mr. Cassidy's 9.1% recommended ROE and Dr. Zepp's recommended ROE of 12.5% is over \$1.1 million annually. All else equal, this revenue requirement differential translates directly to cash flows. The additional cash flows provided by Dr. Zepp's recommended ROE of 12.5% represent approximately 35% of the Company's estimated annual cost of infrastructure replacement requirements of \$3.1 million in its Eastern Group, as cited by Mr. Harris in his direct testimony at page 20, lines 13 – 17. Thus, Dr. Zepp's recommended ROE, as it relates to the magnitude of the infrastructure replacement requirements of the industry in general and AWC specifically, is reasonable in that it helps enable the Company to maintain creditworthiness by realizing the benefits discussed above.

- Q. DO YOU HAVE ANY FURTHER COMMENT UPON THE ADEQUACY OF ACC WITNESS CASSIDY'S AND RUCO WITNESS RIGSBY'S RECOMMENDED COMMON EQUITY COST RATES?
- A. Yes. Mr. Cassidy is recommending a common equity cost rate of 9.1% while Mr. Rigsby is recommending 9.3%. Both of these common equity cost rates are materially and significantly inadequate. The Predictive Risk Premium ModelTM ("PRPMTM"), recently published in the *Journal of Regulatory Economics* ("JRE"), ¹³ can be used to provide an indication of this inadequacy. The PRPMTM was developed from the work of Robert F. Engle who shared the Nobel Prize in Economics in 2003 "for methods of analyzing economic time series with time-varying volatility (ARCH)" with "ARCH" standing for autoregressive conditional

Calculated as the difference between 12.5% and 9.1% multiplied by the portion of the Eastern Group's rate base that is funded by equity, or \$32,397,000 per Mr. Reiker's Exhibit JMR-RB1.

[&]quot;A New Approach for Estimating the Equity Risk Premium for Public Utilities", Pauline M. Ahern, Frank J. Hanley and Richard A. Michelfelder, Ph.D. <u>The Journal of Regulatory Economics</u> (December 2011), 40:261-278. (Exhibit PMA-10)

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heteroskedasticity. In other words, volatility changes over time and is related from one period to the next, especially in financial markets. Engle discovered that the volatility in prices and returns cluster over time. Therefore, high and low volatility periods can be used to predict equity risk premiums. The PRPMTM

estimates the risk/return relationship directly, as the predicted equity risk

premium is generated by the prediction of volatility, i.e., risk.

The inputs to the model are the historical returns on the common shares of each water company in both Mr. Cassidy's and Mr. Rigsby's water utility groups¹⁵ minus the historical monthly yield on long-term U.S. Treasury securities through February 2012. Using a generalized form of ARCH, known as GARCH. each water company's projected equity risk premium was determined using Eviews[©] statistical software. The forecasted 30-year U.S. Treasury Bond ("Note") yield based upon the consensus forecast derived from the April 1, 2012 Blue Chip, 3.58%, was then added to each company's PRPMTM derived equity risk premium. Exhibit PMA-11 presents the results for each company as well as each group's average. As shown on page 1, the average PRPMTM indicated common equity cost rates are 11.05% for Mr. Cassidy's water utility group and 11.32% for Mr. Rigsby's water utility group. Moreover, because these common equity cost rates are based upon the market data of the two proxy groups of water companies, they reflect the investment risk of those proxy companies and do not reflect the additional investment risk of AWC as described by Company witness Thomas M. Zepp in his Direct Testimony at page 15, line 6 through page 7, line 21 and again at page 40, line 22 through page 43, line 4. Consequently,

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I have not undertaken a PRPMTM analysis for Mr. Rigsby's natural gas distribution proxy group because, in my opinion, based upon the relative risk analysis discussed previously in this rebuttal testimony, the investment risk of the water utility industry is greater than that of the investment risk of the electric or gas utility industries.

common equity cost rates of 11.05% and 11.32% clearly demonstrate the inadequacy of Mr. Cassidy's recommended ROE of 9.1% and Mr. Rigsby's 9.3%.

Q. DOES THAT CONCLUDE YOUR REBUTTAL TESTIMONY?

A. Yes.

APPENDIX A

PROFESSIONAL QUALIFICATIONS OF PAULINE M. AHERN, CRRA PRINCIPAL AUS CONSULTANTS

PROFESSIONAL EXPERIENCE

1994-Present

In 1996, I became a Principal of AUS Consultants, continuing to offer testimony as an expert witness on the subjects of fair rate of return, cost of capital and related issues before state public utility commissions. I provide assistance and support to clients throughout the entire ratemaking litigation process. In addition, I supervise the financial analyst and administrative staff in the preparation of fair rate of return and cost of capital exhibits which are filed along with expert testimony before various state and federal public utility regulatory bodies. The team also assists in the preparation of interrogatory responses, as well as rebuttal exhibits.

As the Publisher of AUS Utility Reports (formerly C. A. Turner Utility Reports), I am responsible for the production, publishing, and distribution of the reports. AUS Utility Reports provides financial data and related ratios for about 120 public utilities, i.e., electric, combination gas and electric, natural gas distribution, natural gas transmission, telephone, and water utilities, on a monthly, quarterly and annual basis. Among the subscribers of AUS Utility Reports are utilities, many state regulatory commissions, federal agencies, individuals, brokerage firms, attorneys, as well as public and academic libraries. The publication has continuously provided financial statistics on the utility industry since 1930.

As the Publisher of AUS Utility Reports, I also supervise the production, publishing, and distribution of the AGA Rate Service publications under license from the American Gas Association. I am also responsible for maintaining and calculating the performance of the AGA Index, a market capitalization weighted index of the common stocks of the approximately 70 corporate members of the AGA, which serves as the benchmark for the AGA Gas Utility Index Fund.

As an Assistant Vice President from 1994 - 1996, I prepared fair rate of return and cost of capital exhibits which were filed along with expert testimony before various state and federal public utility regulatory bodies. These supporting exhibits include the determination of an appropriate ratemaking capital structure and the development of embedded cost rates of senior capital. The exhibits also support the determination of a recommended return on common equity through the use of various market models, such as, but not limited to, Discounted Cash Flow analysis, Capital Asset Pricing Model and Risk Premium Methodology, as well as an assessment of the risk characteristics of the client utility. I also assisted in the preparation of responses to any interrogatories received regarding such testimonies filed on behalf of client utilities. Following the filing of fair rate of return testimonies, I assisted in the evaluation of opposition testimony in order to prepare interrogatory questions, areas of cross-examination, and rebuttal testimony. I also evaluated and assisted in the preparation of briefs and exceptions following the hearing process. I also submitted testimony before state public utility commissions regarding appropriate capital structure ratios and fixed capital cost rates.

1990-1994

As a Senior Financial Analyst, I supervised two analysts and assisted in the preparation of fair rate of return and cost of capital exhibits which are filed along with expert testimony before various state and federal public utility regulatory bodies. The team also assisted in the preparation of interrogatory responses.

I evaluated the final orders and decisions of various commissions to determine whether further actions were warranted and to gain insight which assisted in the preparation of future rate of return studies.

I assisted in the preparation of an article authored by Frank J. Hanley and A. Gerald Harris entitled "Does Diversification Increase the Cost of Equity Capital?" published in the July 15, 1991 issue of Public Utilities Fortnightly.

In 1992. I was awarded the professional designation "Certified Rate of Return Analyst" (CRRA) by the National Society of Rate of Return Analysts (now the Society of Utility and Regulatory Financial This designation is based upon education, experience and the successful Analysts (SURFA)). completion of a comprehensive examination.

As Administrator of Financial Analysis for AUS Utility Reports, which then reported financial data for over 200 utility companies with approximately 1,000 subscribers, I oversaw the preparation of this monthly publication, as well as the accompanying annual publication. Financial Statistics - Public Utilities.

1988-1990

As a Financial Analyst, I assisted in the preparation of fair rate of return studies including capital structure determination, development of senior capital cost rates, as well as the determination of an appropriate rate of return on equity. I also assisted in the preparation of interrogatory responses, interrogatory questions of the opposition, areas of cross-examination and rebuttal testimony. I also assisted in the preparation of the annual publication C. A. Turner Utility Reports - Financial Statistics -Public Utilities.

1973-1975

As a Research Assistant in the Research Department of the Regional Economics Division of the Federal Reserve Bank of Boston, I was involved in the development and maintenance of econometric models to simulate regional economic conditions in New England in order to study the effects of, among other things, the energy crisis of the early 1970's and property tax revaluations on the economy of New England. I was also involved in the statistical analysis and preparation of articles for the New England Economic Review. Also, I was Assistant Editor of New England Business Indicators.

1972

As a Research Assistant in the Office of the Assistant Secretary for International Affairs, U.S. Treasury Department, Washington, D.C., I developed and maintained econometric models which simulated the economy of the United States in order to study the results of various alternate foreign trade policies so that national trade policy could be formulated and recommended.

Clients Served

I have offered expert testimony before the following commissions:

Arkansas California Connecticut Delaware Florida Hawaii Idaho Illinois Indiana lowa Kentucky Louisiana Maine

Maryland Michigan Missouri Nevada New Jersev New York North Carolina

Ohio

Pennsylvania Rhode Island South Carolina Virginia Washington

I have sponsored testimony on generic/uniform methodologies for determining the return on common equity for:

Aquarion Water Company
The Connecticut Water Company

United Water Connecticut, Inc. Utilities, Inc.

I have sponsored testimony on the rate of return and capital structure effects of merger and acquisition issues for:

California-American Water Company

New Jersey-American Water Company

I have sponsored testimony on fair rate of return and related issues for:

Alpena Power Company Apple Canyon Utility Company Applied Wastewater Management, Inc. Aqua Illinois, Inc.

Aqua New Jersey, Inc. Aqua North Carolina, Inc.

Aqua Ohio, Inc. Aqua Virginia, Inc.

Aquarion Water Company Artesian Water Company Bermuda Water Company

The Atlantic City Sewerage Company

Audubon Water Company The Borough of Hanover, PA Carolina Pines Utilities, Inc.

Carolina Water Service, Inc. of NC
Carolina Water Service, Inc. of SC
The Columbia Water Company
The Connecticut Water Company
Consumers Illinois Water Company
Consumers Maine Water Company
Consumers New Jersey Water Company

City of DuBois, Pennsylvania Elizabethtown Water Company Emporium Water Company GTE Hawaiian Telephone Inc. Greenridge Utilities, Inc.

Illinois American Water Company Iowa American Water Company Water Services Corp. of Kentucky Lake Wildwood Utilities Corp.

Land'Or Utility Company

Long Island American Water Company

Long Neck Water Company Louisiana Water Service, Inc.

Massanutten Public Service Company

Middlesex Water Company

Missouri-American Water Company

Mt. Holly Water Company Nero Utility Services, Inc. New Jersey Utilities Association

The Newtown Artesian Water Company

NRG Energy Center Pittsburgh LLC NRG Energy Center Harrisburg LLC

Ohio-American Water Company Penn Estates Utilities

Pinelands Water Company Pinelands Waste Water Company Pittsburgh Thermal San Jose Water Company Southland Utilities, Inc.

Spring Creek Utilities, Inc. Sussex Shores Water Company

Tega Cay Water Service, Inc.

Total Environmental Services, Inc. – Treasure Lake Water & Sewer Divisions

Thames Water Americas Tidewater Utilities, Inc. Transylvania Utilities, Inc.

Trigen - Philadelphia Energy Corporation

Twin Lakes Utilities, Inc. United Utility Companies United Water Arkansas, Inc.

United Water Arlington Hills Sewerage, Inc.

United Water Connecticut, Inc. United Water Delaware, Inc.

United Water Great Gorge Inc. / United Water

Vernon Transmission, Inc.
United Water Idaho, Inc.
United Water Indiana, Inc.
United Water New Jersey, Inc.
United Water New Rochelle, Inc.
United Water New York, Inc.
United Water Owego / Nichols, Inc.
United Water Pennsylvania, Inc.
United Water Rhode Island, Inc.
United Water South County, Inc.
United Water Toms River, Inc.

United Water Vernon Sewage Inc. United Water Virginia, Inc. United Water Westchester, Inc. United Water West Lafayette, Inc. United Water West Milford, Inc.

Utilities, Inc.

Utilities Inc. of Central Nevada

Utilities, Inc. of Florida
Utilities, Inc. of Louisiana
Utilities, Inc. of Nevada
Utilities, Inc. of Pennsylvania
Utilities, Inc. - Westgate

Utilities Services of South Carolina

Utility Center, Inc. Valley Energy, Inc.

Wellsboro Electric Company

Western Utilities, Inc.

I have sponsored testimony on capital structure and senior capital cost rates for the following clients:

Alpena Power Company Arkansas-Western Gas Company Associated Natural Gas Company PG Energy Inc. United Water Delaware, Inc. Washington Natural Gas Company

I have assisted in the preparation of rate of return studies on behalf of the following clients:

Algonquin Gas Transmission Company Anadarko Petroleum Corporation Arkansas-Louisiana Gas Company Arkansas Western Gas Company Artesian Water Company

Associated Natural Gas Company
Atlantic City Electric Company
Bridgeport-Hydraulic Company
Cambridge Electric Light Company
Carolina Power & Light Company
Citizens Gas and Coke Utility

City of Vernon, CA

Columbia Gas/Gulf Transmission Cos.
Commonwealth Electric Company
Commonwealth Telephone Company
Conestoga Telephone & Telegraph Co.
Connecticut Natural Gas Corporation
Consolidated Gas Transmission Company

Consumers Power Company

CWS Systems, Inc.

Delmarva Power & Light Company East Honolulu Community Services, Inc.

Equitable Gas Company

Equitrans, Inc.

Florida Power & Light Company Gary Hobart Water Company

Gasco, Inc.

GTE Arkansas, Inc. GTE California, Inc. GTE Florida, Inc.

GTE Hawaiian Telephone

GTE North, Inc. GTE Northwest, Inc. GTE Southwest, Inc.

Great Lakes Gas Transmission L.P. Hawaiian Electric Company

Hawaiian Electric Light Company

IES Utilities Inc.

Illinois Power Company Interstate Power Company Interstate Power & Light Co.

Iowa Electric Light and Power Company Iowa Southern Utilities Company Kentucky-West Virginia Gas Company

Lockhart Power Company Middlesex Water Company Milwaukee Metropolitan Sewer District

Mountaineer Gas Company

National Fuel Gas Distribution Corp. National Fuel Gas Supply Corp. Newco Waste Systems of NJ, Inc. New Jersey Natural Gas Company New Jersey-American Water Company New York-American Water Company

North Carolina Natural Gas Corp. Northumbrian Water Company Ohio-American Water Company Oklahoma Natural Gas Company Orange and Rockland Utilities

Orange and Rockland Utilities
Paiute Pipeline Company
PECO Energy Company
Penn Estates Utilities, Inc.
Penn-York Energy Corporation
Pennsylvania-American Water Co.

PG Energy Inc.

Philadelphia Electric Company Providence Gas Company South Carolina Pipeline Company Southwest Gas Corporation Stamford Water Company

Tesoro Alaska Petroleum Company Tesoro Refining & Marketing Co. United Telephone of New Jersey

United Utility Companies
United Water Arkansas, Inc.
United Water Delaware, Inc.
United Water Idaho, Inc.
United Water Indiana, Inc.
United Water New Jersey, Inc.
United Water New York, Inc.
United Water Pennsylvania, Inc.
United Water Virginia, Inc.
United Water West Lafayette, Inc.
Utilities, Inc. of Pennsylvania

Utilities, Inc. of Pennsylvania Utilities, Inc. - Westgate

Vista-United Telecommunications Corp.

Washington Gas Light Company Washington Natural Gas Company Washington Water Power Corporation Waste Management of New Jersey —

Transfer Station A

(Rate of Return Study Clients Continued)

Wellsboro Electric Company
Western Reserve Telephone Company

Western Utilities, Inc.
Wisconsin Power and Light Company

EDUCATION:

1973 – Clark University – B.A. – Honors in Economics (Concentration: Econometrics and Regional/International Economics)

1991 - Rutgers University - M.B.A. - High Honors (Concentration: Corporate Finance)

PROFESSIONAL AFFILIATIONS:

American Finance Association
Financial Management Association
Society of Utility and Regulatory Financial Analysts
Member, Board of Directors – 2010-2012
President – 2006-2008 and 2008-2010
Secretary/Treasurer – 2004-2006
Energy Association of Pennsylvania
National Association of Water Companies – Member of the Finance/Accounting/Taxation Committee

SPEAKING ENGAGEMENTS:

"A New Approach for Estimating the Equity Risk Premium Applied to Public Utilities", (co-presenter with Frank J. Hanley, Principal and Director, AUS Consultants) before the Water Committee of the National Association of Regulatory Utility Commissioners' Winter Committee Meetings, February 7, 2012, Washington, DC.

"A New Approach for Estimating the Equity Risk Premium Applied to Public Utilities", (co-presenter with Richard A. Michelfelder, Ph.D., Rutgers University and Frank J. Hanley, Principal and Director, AUS Consultants) before the Wall Street Utility Group, December 19, 2011, New York City, NY.

"Advanced Cost and Finance Issues for Water", (co-presenter with Gary D. Shambaugh, Principal & Director, AUS Consultants), 2011 Advanced Regulatory Studies Program – Ratemaking, Accounting and Economics, September 29, 2011, Kellogg Center at Michigan State University – Institute for Public Utilities, East Lansing, MI.

"Public Utility Betas and the Cost of Capital", (co-presenter with Richard A. Michelfelder, Ph.D., Rutgers University) – Advanced Workshop in Regulation and Competition, 30th Annual Eastern Conference of the Center for Research in Regulated Industries (CRRI), May 20, 2011, Rutgers University, Skytop, PA.

Moderator: Society of Utility and Regulatory Financial Analysts: 43rd Financial Forum – "Impact of Cost Recovery Mechanisms on the Perception of Public Utility Risk", April 14-15, 2011, Washington, DC.

"A New Approach for Estimating the Equity Risk Premium for Public Utilities", (co-presenter with Richard A. Michelfelder, Ph.D., Rutgers University) -- Hot Topic Hotline Webinar, December 3, 2010, Financial Research Institute of the University of Missouri.

"A New Approach for Estimating the Equity Risk Premium for Public Utilities", (co-presenter with Richard A. Michelfelder, Ph.D., Rutgers University) before the Indiana Utility Regulatory Commission Cost of Capital Task Force, September 28, 2010, Indianapolis, IN

Tomorrow's Cost of Capital: Cost of Capital Issues 2010, Deloitte Center for Energy Solutions, 2010 Deloitte Energy Conference, "Changing the Great Game: Climate, Customers and Capital", June 7-8, 2010, Washington, DC.

"Cost of Capital Issues – 2010" – Deloitte Center for Energy Solutions 2010 Energy Conference: Changing the Great Game: Climate, Consumers and Capital, June 7-8, 2010, Washington, DC

"A New Approach for Estimating the Equity Risk Premium for Public Utilities", (co-presenter with Richard A. Michelfelder, Ph.D., Rutgers University) – Advanced Workshop in Regulation and Competition, 29th Annual Eastern Conference of the Center for Research in Regulated Industries (CRRI), May 20, 2010, Rutgers University, Skytop, PA

Moderator: Society of Utility and Regulatory Financial Analysts: 42nd Financial Forum – "The Changing Economic and Capital Market Environment and the Utility Industry", April 29-30, 2010, Washington, DC

"A New Model for Estimating the Equity Risk Premium for Public Utilities" (co-presenter with Richard A. Michelfelder, Ph.D., Rutgers University) – Spring 2010 Meeting of the Staff Subcommittee on Accounting and Finance of the National Association of Regulatory Utility Commissioners, March 17, 2010, Charleston, SC

"New Approach to Estimating the Cost of Common Equity Capital for Public Utilities" (co-presenter with Richard A. Michelfelder, Ph.D., Rutgers University) - Advanced Workshop in Regulation and Competition, 28th Annual Eastern Conference of the Center for Research in Regulated Industries (CRRI), May 14, 2009, Rutgers University, Skytop, PA

Moderator: Society of Utility and Regulatory Financial Analysts: 41st Financial Forum – "Estimating the Cost of Capital in Today's Economic and Capital Market Environment", April 16-17, 2009, Washington, DC

"Water Utility Financing: Where Does All That Cash Come From?", AWWA Pre-Conference Workshop: Water Utility Ratemaking, March 25, 2008, Atlantic City, NJ

PAPERS:

"A New Approach for Estimating the Equity Risk Premium for Public Utilities", co-authored with Frank J. Hanley and Richard A. Michelfelder, Ph.D., Rutgers University, <u>The Journal of Regulatory Economics</u> (December 2011), 40:261-278.

"Comparable Earnings: New Life for an Old Precept" co-authored with Frank J. Hanley, <u>Financial Quarterly Review</u>, (American Gas Association), Summer 1994.

PMA-1

**** for ****

American Society of Civil Engineers March 25, 2009 www.asce.org/reportcard

EXECUTIVE SUMMARY

TRENDS IN THE GRADES

Grades ranged from a high of C+ for solid waste to a low of D- for drinking water, inland waterways, levees, roads, and wastewater. U.S. surface transportation and aviation systems declined over the past four years, with aviation and transit dropping from a D+ to D, and roads dropping from a D to a nearly failing D-.

Showing no significant improvement since the last report, the nation's bridges, public parks and recreation, and rail remained at a grade of C, while dams, hazardous waste, and schools remained at a grade of D, and drinking water and wastewater remained at a grade of D-. Levees, the newest category, debuted on the 2009 *Report Card* at a barely passing grade of D-.

Just one category—energy—improved since 2005, raised its grade from D to D+.

Water and Environment

DAMS: As dams age and downstream development increases, the number of deficient dams has risen to more than 4,000, including 1,819 high hazard dams. Over the past six years, for every deficient, high hazard potential dam repaired, nearly two more were declared deficient. There are more than 85,000 dams in the U.S., and the average age is just over 51 years old. Because of the lack of progress made in repairing and rehabilitating the

nation's dams, this category again earned a grade of D.

DRINKING WATER: Drinking water again earned a D-. America's drinking water systems face an annual shortfall of at least \$11 billion to replace aging facilities that are near the end of their useful life and to comply with existing and future federal water regulations. This does not account for growth in the demand for drinking water over the next 20 years. Leaking pipes lose an estimated seven billion gallons of clean drinking water a day. Although Americans still enjoy some of the best tap water in the world, the costs of treating and delivering that water where it is needed continue to outpace the funds available to sustain the system.

thousands of contaminated sites exist across the country, representing millions of dollars of untapped economic potential. Redevelopment of brownfield sites over the past five years generated an estimated 191,338 new jobs and \$408 million annually in extra revenues for localities. In 2008, however, there were 188 U.S. cities with brownfield sites awaiting cleanup and redevelopment. Additionally, federal funding for "Superfund" cleanup of the nation's worst toxic waste sites has declined steadily, dropping to \$1.08 billion

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TABLE A ★ 2009 Report Card for America's Infrastructure

Aviation	D
Bridges	C
Dams	D
Drinking Water	D-
Energy	D+
Hazardous Waste	D
Inland Waterways	D-
Levees	D-
Public Parks and Recreation	C-
Rail	C-
Roads	D-
Schools	D
Solid Waste	C+
Transit	D
Wastewater	D-

AMERICA'S INFRASTRUCTURE G.P.A.



ESTIMATED 5 YEAR INVESTMENT NEED

\$2.2 Trillion

NOTES Each category was evaluated on the basis of capacity, condition, funding, future need, operation and maintenance, public safety and resilience

A = Exceptional

B = Good

C = Mediocre

D = Poor

F = Failing

in 2008, its lowest level since 1986. Since little has been done to clean up these sites since the last *Report Card*, hazardous waste again earned a grade of D.

LEVEES: The Report Card's new category, levees, earned a D-. More than 85% of the nation's estimated 100,000 miles of levees are locally owned and maintained. The reliability of many of these levees is unknown. Many are more than 50 years old and were originally built to protect crops from flooding. With an increase in development behind these levees, the risk to public health and safety from failure has increased. Rough estimates put the cost at more than \$100 billion to repair and rehabilitate the nation's levees.

SOLID WASTE: The category that has consistently had the highest grade on the Report Card for America's Infrastructure is solid waste, again earning the highest grade of C+. In 2007, the U.S. produced 254 million tons of municipal solid waste. More than a third was recycled or recovered, representing a 7% increase since 2000. Per capita generation of waste has remained relatively constant over the last 20 years. Despite those successes, the increasing volume of electronic waste and lack of uniform regulations for its disposal creates the potential for high levels of hazardous materials and heavy metals in the nation's landfills, posing a significant threat to public safety.

WASTEWATER: Aging systems discharge billions of gallons of untreated wastewater into U.S. surface waters each year. The U.S. Environmental Protection Agency estimates that the nation must invest \$390 billion over the next 20 years to update or replace existing systems and build new ones to meet increasing demand. Wastewater continues to be among the lowest grades on the *Report Card*, again earning a D- in 2009.

Transportation

AVIATION: Despite surging oil prices, volatile credit markets, and a lagging economy, the Federal Aviation Administration projects a 3% annual growth in air travel. Travelers will be faced with increasing delays and inadequate conditions as a result of the long overdue need to modernize the outdated air traffic control system and the failure to enact a federal aviation program. The increasing delays and the lack of new authorization for federal aviation programs have caused aviation's grade to slip to a D in 2009.

BRIDGES: More than 26%—more than one in four—of the nation's bridges are either structurally deficient or functionally obsolete. While some progress has been made in recent years to reduce the number of deficient and obsolete bridges in rural areas, the number in urban areas is rising. A \$17 billion annual investment is needed to substantially improve current bridge conditions. Currently, only \$10.5 billion is spent annually on the construction and maintenance of bridges. There have been no substantial improvements in bridge condition since the last *Report Card*, keeping the grade at a C for 2009.

INLAND WATERWAYS: The nation's waterways offer an efficient and environmentally friendly way to move goods across the country. The average tow barge can carry the equivalent of 870 tractor trailer loads. Of the 257 locks still in use on the nation's inland waterways, 30 were built in the 1800s and another 92 are more than 60 years old. The average age of all federally owned or operated locks is nearly 60 years, well past their planned design life of 50 years. The cost to replace the present system of locks is estimated at more than \$125 billion. Despite the economic savings waterways can offer, little has been done to improve their condition since 2005, leaving this category at a grade of D-.

RAIL: A freight train is three times as fuel efficient as a truck, and traveling by passenger rail uses 20% less energy per mile than traveling by car. However, growth and changes in demand create bottlenecks that constrain traffic in critical areas. Freight and passenger rail generally share the same network, and a significant potential increase in passenger rail demand will add to the freight railroad capacity challenges. More than \$200 billion is needed through 2035 to accommodate anticipated growth. Similar to the nation's inland waterways, rail offers enormous economic and environmental potential, but few improvements have been made since 2005. This category again rates at a C-.

ROADS: Congestion on the nation's roads is increasing and the cost to improve is ever rising, causing the roads grade to

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decrease to a D- in 2009. Americans spend 4.2 billion hours a year stuck in traffic at a cost to the economy of \$78.2 billion, or \$710 per motorist. Poor conditions cost motorists \$67 billion a year in repairs and operating costs. One-third of America's major roads are in poor or mediocre condition and 45% of major urban highways are congested. Current spending of \$70.3 billion per year for highway capital improvements is well below the estimated \$186 billion needed annually to substantially improve conditions.

transit: Transit use increased 25% between 1995 and 2005, faster than any other mode of transportation. However, nearly half of American households do not have access to bus or rail transit, and only 25% have what they consider to be a good alternative. The Federal Transit Administration estimates that \$15.8 billion is needed annually to maintain conditions and \$21.6 billion is needed to improve to good conditions. In 2008, federal capital outlays for transit were only \$9.8 billion. Since investment in transit has not kept pace with its growing needs, the 2009 grade has dropped to a D.

Public Facilities PUBLIC PARKS AND RECREATION:

Parks, beaches, and other recreational facilities contribute \$730 billion per year to the U.S. economy, support nearly 6.5 million jobs, and contribute to cleaner air and water and higher property values. Despite record spending on parks at the state and local level, the acreage of park-

land per resident in urban areas is declining. While significant investments are being made in the National Park Service for its 2016 centennial, the agency's facilities still face a \$7-billion maintenance backlog. Even though some progress has been made since 2005 to improve the nation's parkland, lagging public investment means that public parks and recreation still earns a grade of C- in 2009.

SCHOOLS: Spending on the nation's schools grew from \$17 billion in 1998 to a peak of \$29 billion in 2004. However, by 2007 spending fell to \$20.28 billion. No comprehensive, authoritative nationwide data on the condition of America's school buildings have been collected in a decade. The National Education Association's best estimate to bring the nation's schools into good repair is \$322 billion. Without upto-date data, the true extent of the problems facing the nation's schools cannot be known, and therefore schools once again receive a grade of D.

Energy

ENERGY: Progress has been made in grid reinforcement since 2005, and substantial investment in generation, transmission, and distribution is expected over the next two decades. Demand for electricity has grown by 25% since 1990. Public and government opposition and difficulty in the permitting processes are restricting much needed modernization. Projected electric utility investment needs could be as much as \$1.5 trillion by 2030. The increase to a grade of D+ is largely due to anticipated

investments in improvements over the next two decades, which began in 2005.

RAISING THE GRADES: SOLUTIONS

The nation's infrastructure faces some very real problems that threaten our way of life if they are not addressed. These problems are solvable if we have the needed vision and leadership. Raising the grades on our infrastructure will require that we seek and adopt a wide range of structural and non-structural solutions in every category, including technical advances, funding and regulatory changes, and changes in public behavior and support.

ASCE has developed five key solutions to begin raising the grades. They are:

- ★ INCREASE federal leadership in infrastructure to address the crisis;
- ★ PROMOTE sustainability and resilience in infrastructure to protect the natural environment and withstand natural and man-made hazards;
- ★ DEVELOP national, state, and regional infrastructure plans that complement a national vision and focus on systemwide results:
- ★ ADDRESS life-cycle costs and ongoing maintenance to meet the needs of current and future users;
- **★ INCREASE** and improve infrastructure investment from all stakeholders.

RAISING THE GRADES: CASE STUDIES

While the conditions listed in the *Report Card* mean low grades for all categories, there are positive examples from across the country that demonstrate some progress is being made. Throughout the report, case studies of how public and private organizations have addressed specific problems are included to demonstrate how these innovative solutions can be applied on a larger scale. The case studies for each category may not contribute to an overall improvement of the grade, but they illustrate that the problems facing the nation's infrastructure are solvable with some creativity and determination.

HISTORY

The concept for a report card to grade the nation's infrastructure originated in 1988 with a congressionally chartered commission, the National Council on Public Works Improvement. Titled *Fragile Foundations: A Report on America's Public Works*, the council's report issued recommendations on how to improve the nation's infrastructure. As a way to guide the study, the authors used the report card concept to establish a baseline evaluation of the infrastructure. This first report card included eight categories of infrastructure and assigned letter grades on the basis of performance and capacity of existing public works.

In 1988, when the report was released, the nation's infrastructure earned a "C," representing an average grade. Among the problems identified within *Fragile Foundations* were increasing congestion and



ABOVE: Crews work to rescue stranded drivers after a major water main broke in Montgomery County, Maryland on December 23, 2008. Photo courtesy of The Gazette / Gazette. Net.

deferred maintenance and age of the system; the authors of the report worried that fiscal investment was inadequate to meet the current operations costs and future demands on the system. Since 1998 ASCE has released four *Report Cards* and found each time that these same problems persist.

METHODOLOGY

The Report Card advisory council comprises 28 engineers with expertise in the disciplines represented in the report. For nearly a year the council worked to analyze current data and conditions within the 15 categories, consult with additional technical and industry experts, and assess and assign grades.

In assigning grades, the council considered several fundamental criteria. These

included capacity, condition, operations and maintenance, current and future funding, public safety, and resilience. The grade determination was based on both publicly available data and the subjective judgments of the engineers serving on the advisory council.

The 2005 Report Card featured a category called "Security" that sought to rate the ability of infrastructure to meet manmade threats. In the four years since that report, engineers have begun to look at security in the context of infrastructure's overall resilience—or the ability to withstand and recover from both natural and man-made hazards. Since the likelihood of natural disaster is sometimes much higher than that of a man-made threat, and resilience must be determined on a system by system basis, the 2009 Report Card now incorporates resilience as a grading factor in each category.

THE NEED FOR INVESTMENT

In 2009, ASCE estimates that \$2.2 trillion needs to be invested over five years to bring the condition of the nation's infrastructure up to a good condition—an increase of more than half a trillion dollars since the 2005 *Report Card*'s estimate of \$1.6 trillion. This number, adjusted for a 3% rate of inflation, represents capital spending at all levels of government and includes what is already being spent. Current spending amounts to only about half of the needed investment, which means the U.S. must invest an additional \$1.1 billion over the next five years. ★

TABLE B \star Estimated 5-Year Investment Needs in Billions of Dollars

CATEGORY	5-YEAR NEED (BILLIONS)	ESTIMATED ACTUAL SPENDING*	AMERICAN RECOVERY AND REINVESTMENT ACT (P.L. III-005)	FIVE-YEAR INVESTMENT SHORTFALL
Aviation	87	45	1.3	(40.7)
Dams	12.5	5	0.05	(7.45)
Drinking Water and Wastewater	255	140	6.4	(108.6)
Energy	75	34.5	11	(29.5)
Hazardous Waste and Solid Waste	77	32.5	1.1	(43.4)
Inland Waterways	50	25	4.475	(20.5)
Levees	50	1.13	0	(1.13)
Public Parks and Recreation	85	36	0.835	(48.17)
Rail	63	42	9.3	(11.7)
Roads and Bridges	930	351.5	27.5	(549.5)
Discretionary grants for surface transportation	r		1.5	
Schools	160	125	0**	(35)
Transit	265	66.5	8.4	(190.1)
2	.122 trillion*	* 903 billion	71.76 billion	(1.176 trillion)

Total Need**** \$2.2 trillion

SOURCES For source information see page 150.

^{* 5} year spending estimate based on the most recent available spending at all levels of government and not indexed for inflation ** The American Recovery and Reinvestment Act included \$53.6 billion for a State Fiscal Stabilization Fund for education, as of press time, it was not known how much would be spent on school infrastructure.

^{***} Not adjusted for inflation
**** Assumes 3% annual inflation



RAISING THE GRADES SOLUTIONS THAT WILL WORK NOW

- A Exceptional B Good
- C = Mediocre
- D = Poor
- F = Failing

AMERICA'S INFRASTRUCTURE G.P.A.



ESTIMATED 5-YEAR FUNDING REQUIREMENTS FOR DRINKING WATER AND WASTEWATER

Total investment needs \$255 BILLION

Estimated spending ### \$146.4 BILLION Projected shortfall #108.6 BILLION

- ★ INCREASE funding for water infrastructure system improvements and associated operations through a comprehensive federal program;
- ★ CREATE a Water Infrastructure Trust Fund to finance the national shortfall in funding of infrastructure systems under the Clean Water Act and the Safe Drinking Water Act, including stormwater management and other projects designed to improve the nation's water quality;
- ★ EMPLOY a range of financing mechanisms, such as appropriations from general treasury funds, issuance of revenue bonds and tax exempt financing at state and local levels, public-private partnerships, state infrastructure banks, and user fees on certain consumer products as well as innovative financing mechanisms, including broad-based environmental restoration taxes to address problems associated with water pollution, wastewater management and treatment, and storm-water management.

CONDITIONS

The nation's drinking-water systems face staggering public investment needs over the next 20 years. Although America spends billions on infrastructure each year, drinking water systems face an annual shortfall of at least \$11 billion in funding needed to replace aging facilities that are near the end of their useful life and to comply with existing and future federal water regulations. The shortfall does not account for any growth in the demand for drinking water over the next 20 years.²

Of the nearly 53,000 community water systems, approximately 83% serve 3,300 or fewer people. These systems provide water to just 9% of the total U.S. population served by all community systems. In contrast, 8% of community water systems serve more than 10,000 people and provide water to 81% of the population served. Eighty-five percent (16,348) of nontransient, noncommunity water systems and 97% (83,351) of transient noncommunity water systems serve 500 or fewer people. These smaller systems face huge financial, technological, and managerial challenges in meeting a growing number of federal drinking-water regulations.

In 2002, the U.S. Environmental Protection Agency (EPA) issued The Clean Water and Drinking Water Infrastructure Gap Analysis, which identified potential funding gaps between projected needs and spending from 2000 through 2019. This analysis estimated a potential 20-year funding gap for drinking water capital expenditures as well as operations and

maintenance, ranging from \$45 billion to \$263 billion, depending on spending levels. Capital needs alone were pegged at \$161 billion.²

The Congressional Budget Office (CBO) concluded in 2003 that "current funding from all levels of government and current revenues generated from ratepayers will not be sufficient to meet the nation's future demand for water infrastructure." The CBO estimated the nation's needs for drinking water investments at between \$10 billion and \$20 billion over the next 20 years.³

In 1996, Congress enacted the drinkingwater state revolving loan fund (SRF) program. The program authorizes the EPA to award annual capitalization grants to states. States then use their grants (plus a 20% state match) to provide loans and other assistance to public water systems. Communities repay loans into the fund, thus replenishing the fund and making resources available for projects in other communities. Eligible projects include installation and replacement of treatment facilities, distribution systems, and some storage facilities. Projects to replace aging infrastructure are eligible if they are needed to maintain compliance or to further public health protection goals.

Federal assistance has not kept pace with demand, however. Between FY 1997 and FY 2008, Congress appropriated approximately \$9.5 billion for the SRF. This 11-year total is only slightly more than the annual capital investment gap for each of those years as calculated by the EPA in 2002.

GRADES CASE STUDIES

ORANGE COUNTY, CA ★ Groundwater Replenishment System

The California Department of Water Resources predicts that by 2020, the entire state will experience water shortages equal to the needs of 4 to 12 million families of four for one year. To meet growing demand and reduce reliance on water imported from northern California and the Colorado River, the Orange County Water District developed the Groundwater Replenishment (GWR) System that takes highly treated sewer water and purifies it to levels that meet state and federal drinking water standards. GWR System water will be between 35% to 75% cheaper than water produced by seawater desalination and the purification process will consume about half the energy. *Photos courtesy of Orange County Water District*.



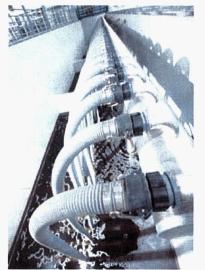




TABLE 2.1 * Design Life of Drinking Water Systems

COMPONENTS	YEARS OF DESIGN LIFE
Reservoirs and Dams	50-80
Treatment Plants—Concrete Structures	60-70
Treatment Plants—Mechanical and Electrical	15–25
Trunk Mains	65-95
Pumping Stations—Concrete Structures	60-70
Pumping Stations—Mechanical and Electrical	25
Distribution	60-95

SOURCE US EPA Clean Water and Drinking Water Infrastructure Gap Analysis Report, September 2002

TABLE $2.2 \star$ Water Usage: 1950 and 2000

	1950	2000	PERCENT CHANGE
Population (Millions)	93.4	242	159%
Usage (Billions of Gallons per Day)	14	43	207%
Per Capita Usage (Gallons per Person per Day)	149	179	20%

SOURCE US EPA Clean Water and Drinking Water Infrastructure Gap Analysis Report, September 2002

RESILIENCE

Drinking water systems provide a critical public health function and are essential to life, economic development, and growth. Disruptions in service can hinder disaster response and recovery efforts, expose the public to water-borne contaminants, and cause damage to roadways, structures, and other infrastructure, endangering lives and resulting in billions of dollars in losses.

The nation's drinking-water systems are not highly resilient; present capabilities to prevent failure and properly maintain or reconstitute services are inadequate. Additionally, the lack of investment and the interdependence on the energy sector contribute to the lack of overall system resilience. These shortcomings are currently being addressed through the construction of dedicated emergency power generation at key drinking water utility facilities, increased connections with adjacent utilities for emergency supply, and the development of security and criticality criteria. Investment prioritization must take into consideration system vulnerabilities, interdependencies, improved efficiencies in water usage via market incentives, system robustness, redundancy, failure consequences, and ease and cost of recovery.

The question is not whether the federal government should take more responsibility for drinking water improvements but how it should take more responsibility.

GRADES CASE STUDIES

LOUISVILLE, KY ★ American Recovery and Reinvestment Act Funding

The Louisville Water Company has proposed \$11 million in projects that could be funded as part of the 2009 American Recovery and Reinvestment Act (P.L. 111-005). The projects would rehabilitate 75 miles of water main to extend the useful life of the system and reduce water main breaks. In addition, 9.5 miles of water main would be replaced to improve water quality, fire hydrant flow and reduce maintenance. Together, the projects would support 101 jobs.

PORT ANGELES, WA ★ Downtown Water Main Project

In 2008, the City of Port Angeles completed a project to replace the water mains and sidewalks in the downtown area. The replacement water mains bring the city's downtown area to a service level that meets current fire flow standards, reduces seismic risks and helps prevent water main failures due to age. The original water mains were installed in 1914. In conjunction with the water main replacement, many sidewalks were replaced with pavers that enhance the downtown appearance. Also, new conduit and wiring was installed for street and pedestrian lighting. Photos courtesy of the City of Port Angeles.





CONCLUSION

New solutions are needed for what amounts to nearly \$1 trillion in critical drinking water and wastewater investments over the next two decades. Not meeting the investment needs of the next 20 years risks reversing public health, environmental, and economic gains of the past three decades.

Without a significantly enhanced federal role in providing assistance to drinking water infrastructure, critical investments will not occur. Possible solutions include grants, trust funds, loans and incentives for private investment. The question is not whether the federal government should take more responsibility for drinking water improvements but how it should take more responsibility.

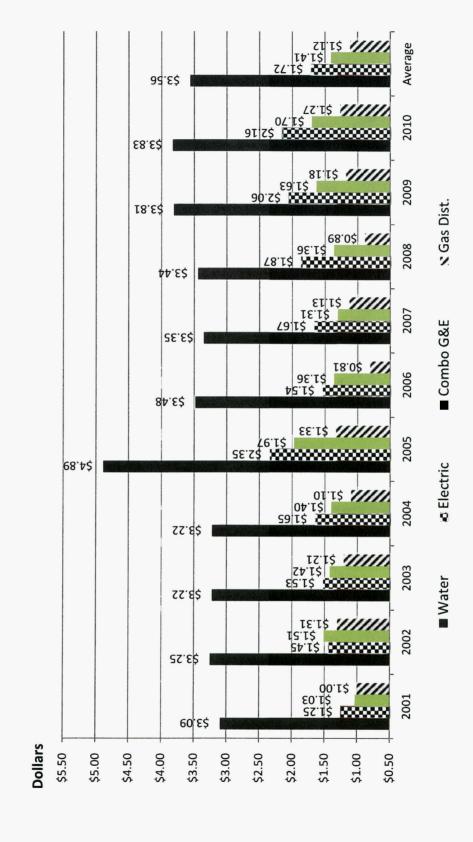
The case for federal investment is compelling. Needs are large and unprecedented; in many locations, local sources cannot be expected to meet this challenge alone, and because waters are shared across local and state boundaries, the benefits of federal help will accrue to the entire nation. Clean and safe water is no less a national priority than are national defense, an adequate system of interstate highways, and a safe and efficient aviation system. These latter infrastructure programs enjoy sustainable, long-term federal grant programs; under current policy, water and wastewater infrastructure do not. *

SOURCES

- 1 Congressional Research Service, Safe Drinking Water Act: Selected Regulatory and Legislative Issues, April 2008.
- 2 U.S. Environmental Protection Agency, *The Clean Water and Drinking Water Infrastructure Gap Analysis*, September 2002.
- 3 U.S. Congressional Budget Office, Future Investment in Drinking Water and Wastewater Infrastructure, May 2002.
- 4 G. Tracy Mehan, Testimony before the Subcommittee on Water Resources and Environment, U.S. House Transportation and Infrastructure Committee, February 2009. http://transportation.house.gov/hearings/hearing.aspx.

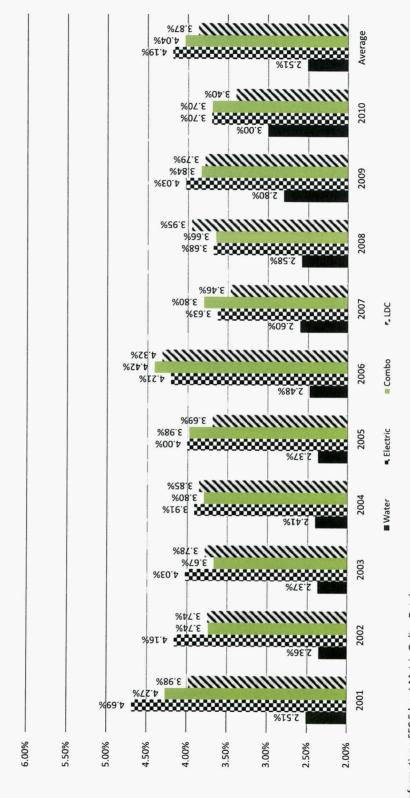
PMA-2

Capital Intensity of the AUS Utility Reports Companies 2001 - 2010



Source of Information: SEC Edgar I-Metrix Online Database

Depreciation Rates for the AUS Utility Reports Companies 2001-2010



Source of Information: SEC Edgar I-Metrix Online Database

2008 for the AUS Utility Reports Electric Companies Free Cash Flow / Operating Revenues 2007 2001 - 2010 2005 2004 2003 2002

(0.05)

0.10

0.05

(0.10)

(0.15)

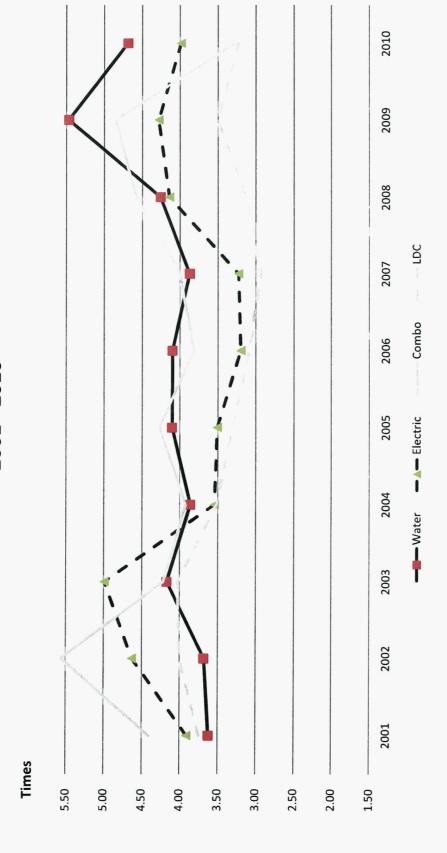
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(0.20)

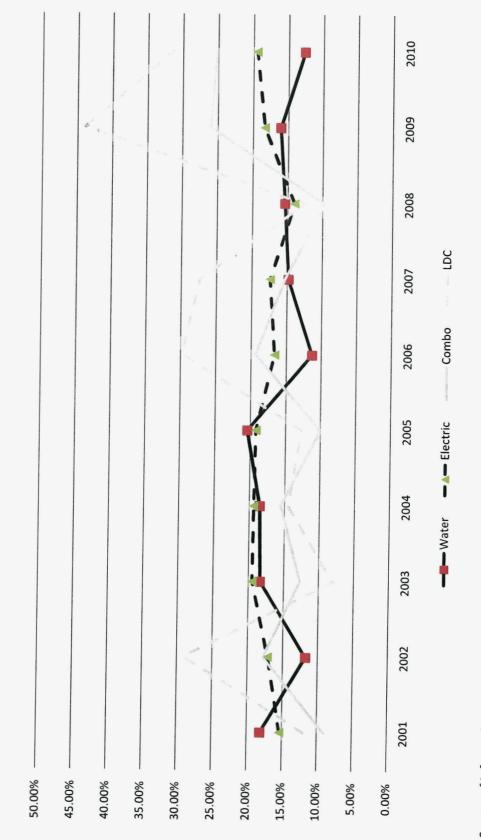
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Total Debt / EBITDA for the AUS Utility Reports Companies 2001 - 2010



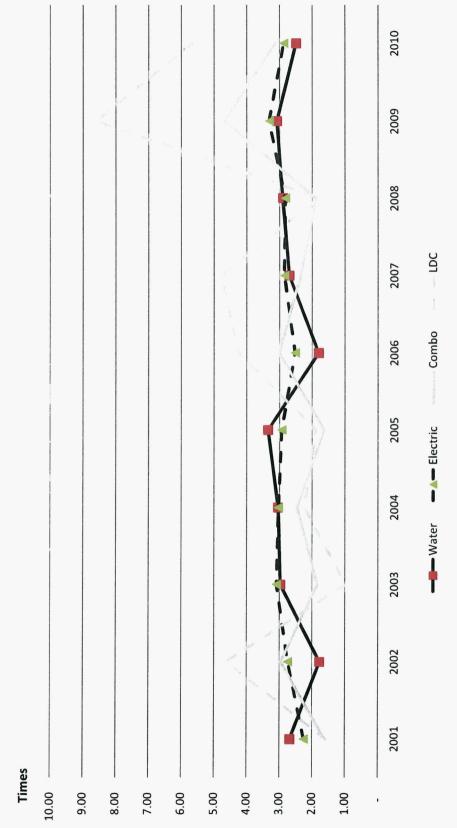
Source of Information: SEC Edgar I-Metrix Online Database

Funds From Ops / Total Debt for the AUS Utility Reports Cos. 2001-2010



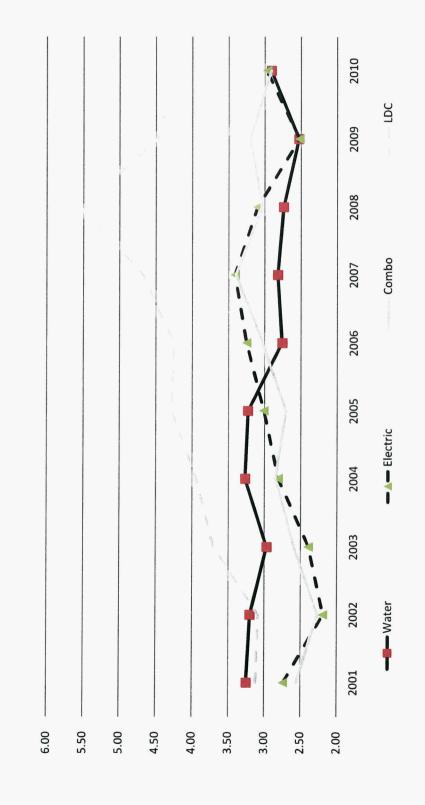
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Funds From Ops / Interest Cov. for the AUS Utility Reports Cos. 2001 - 2010



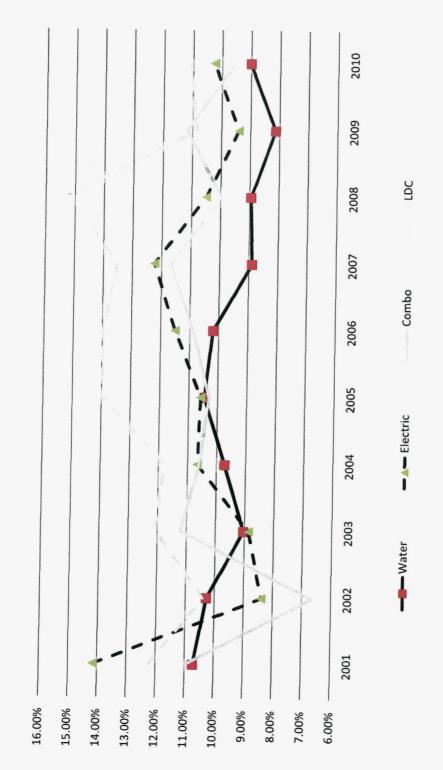
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Before-Inc. Tax / Interest Cov. for the AUS Utility Reports Cos. 2001 - 2010



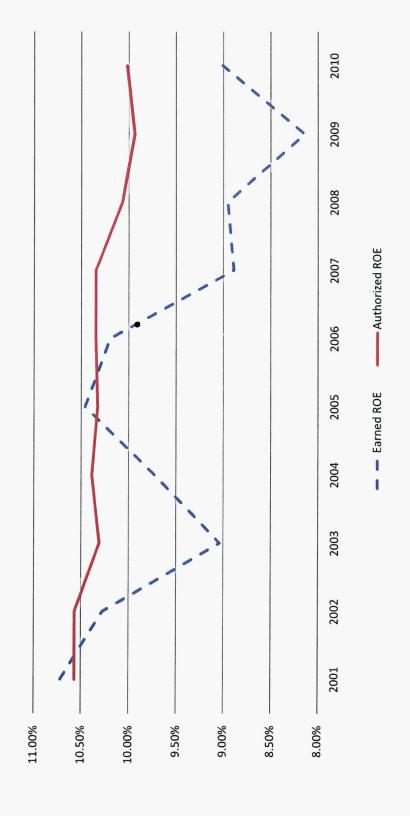
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Earned Returns on Common Equity for the AUS Utility Reports Cos. 2001 - 2010



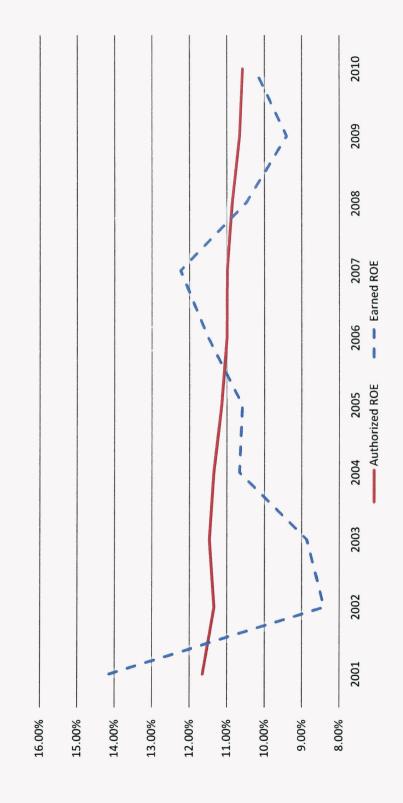
Source of Information: SEC Edgar I-Metrix Online Database

Earned ROE v Authorized ROE for the AUS Utility Reports Water Companies 2001 - 2010



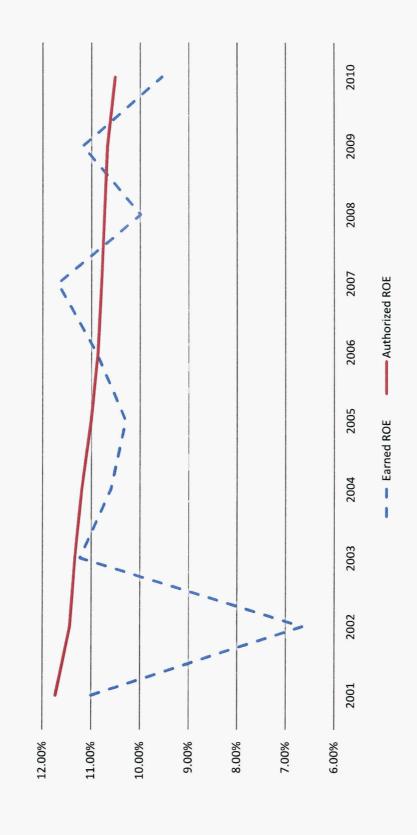
Source of Information: SEC Edgar I-Metrix Online Database & AUS Utility Reports

Earned ROE v Authorized ROE for the AUS Utility Reports Electric Companies 2001 - 2010



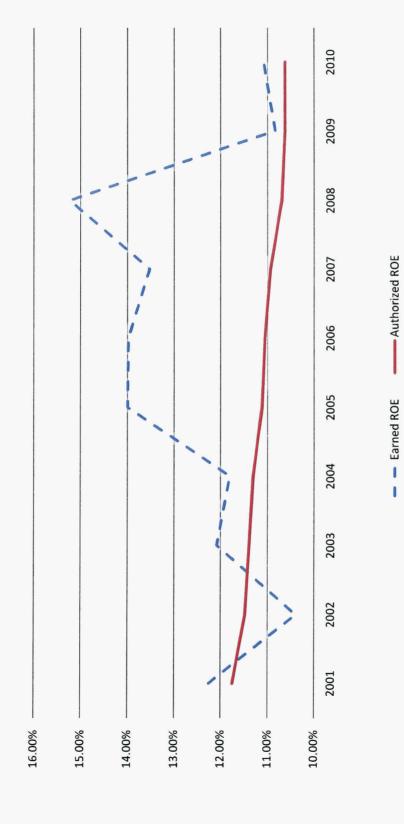
Source of Information: SEC Edgar I-Metrix Online Database & AUS Utility Reports

Earned ROE v Authorized ROE for the AUS Utility Reports Combination 2001 - 2010 Companies

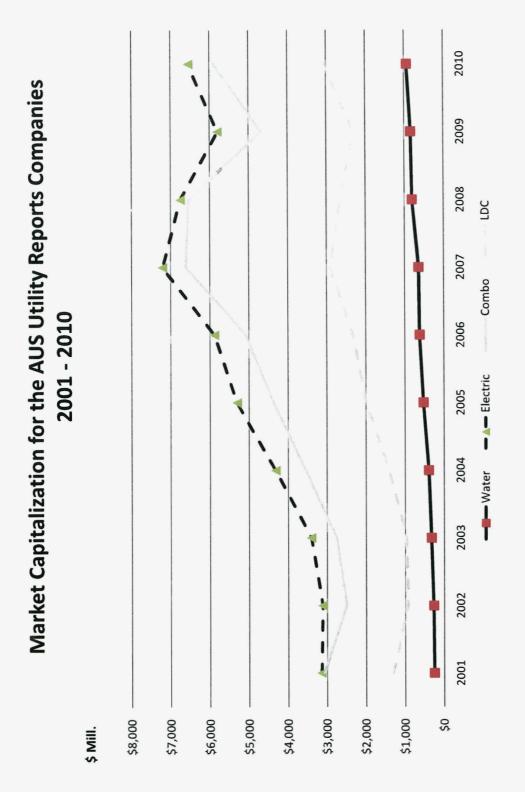


Source of Information: SEC Edgar I-Metrix Online Database & AUS Utility Reports

Earned ROE v Authorized ROE for the AUS Utility Reports LDC 2001 - 2010 Companies



Source of Information: SEC Edgar I-Metrix Online Database & AUS Utility Reports



Source of Information: SEC Edgar I-Metrix Online Database

PMA-3

Resolution Supporting Consideration of Regulatory Policies Deemed as "Best Practices"

WHEREAS, A number of innovative regulatory policies and mechanisms have been implemented by public utility commissions throughout the United States which have contributed to the ability of the water industry to effectively meet water quality and infrastructure challenges; and

WHEREAS, The capacity of such policies and mechanism to facilitate resolution of these challenges in appropriate circumstances supports identification of such policies and mechanisms as "best practices"; and

WHEREAS, During a recent educational dialogue, the "2005 NAWC Water Policy Forum," held among representatives from the water industry, State economic regulators, and State and federal drinking water program administrators, participants discussed (consensus was not sought nor determined) and identified over 30 innovative policies and mechanisms that have been summarized in a report of the Forum to be available on the website of the Committee on Water at www.naruc.org; and

WHEREAS, As public utility commissions continue to grapple with finding solutions to meet the myriad water and wastewater industry challenges, the Committee on Water hereby acknowledges the Forum's Summary Report as a starting point in a commission's review of available and proven regulatory mechanisms whenever additional regulatory policies and mechanisms are being considered; and

WHEREAS, To meet the challenges of the water and wastewater industry which may face a combined capital investment requirement nearing one trillion dollars over a 20-year period, the following policies and mechanisms were identified to help ensure sustainable practices in promoting needed capital investment and cost-effective rates: a) the use of prospectively relevant test years; b) the distribution system improvement charge; c) construction work in progress; d) pass-through adjustments; e) staff-assisted rate cases; f) consolidation to achieve economies of scale; g) acquisition adjustment policies to promote consolidation and elimination of non-viable systems; h) a streamlined rate case process; i) mediation and settlement procedures; j) defined timeframes for rate cases; k) integrated water resource management; l) a fair return on capital investment; and m) improved communications with ratepayers and stakeholders; and

WHEREAS, Due to the massive capital investment required to meet current and future water quality and infrastructure requirements, adequately adjusting allowed equity returns to recognize industry risk in order to provide a fair return on invested capital was recognized as crucial; and

WHEREAS, In light of the possibility that rate increases necessary to remediate aging infrastructure to comply with increasing water quality standards could aversely affect the affordability of water service to some customers, the following were identified as best practices to address these concerns: a) rate case phase-ins; b) innovative payment arrangements; c) allowing the consolidation of rates ("Single Tariff Pricing") of a multi-divisional water utility to spread capital costs over a larger base of customers; and d) targeted customer assistance programs; and

WHEREAS, Small water company viability issues continue to be a challenge for regulators, drinking water program administrators and the water industry; best practices identified by Forum participants include: a) stakeholder collaboration; b) a memoranda of understanding among relevant

State agencies and health departments; c) condemnation and receivership authority; and d) capacity development planning; and

WHEREAS, The U.S. Environmental Protection Agency's "Four-Pillar Approach" was discussed as yet another best practice essential for water and wastewater systems to sustain a robust and sustainable infrastructure to comprehensively ensure safe drinking water and clean wastewater, including: a) better management at the local or facility level; b) full-cost pricing; c) water efficiency or water conservation; and d) adopting the watershed approach, all of which economic regulators can help promote; and

WHEREAS, State drinking water program administrators emphasized the following mechanisms which Forum participants identified as best practices: a) active and effective security programs; b) interagency coordination to assist with new water quality regulation development and implementation, such as a memorandum of understanding; c) expanded technical assistance for small water systems; d) data system modernization to improve data reliability; e) effective administration and oversight of the Drinking Water State Revolving Fund to maximize infrastructure remediation, along with permitting investor owned water companies access in all States; f) the move from source water assessment to actual protection; and g) providing State drinking water programs with adequate resources to carry out their mandates; now therefore be it

RESOLVED, That the National Association of Regulatory Utility Commissioners (NARUC), convened in its July 2005 Summer Meetings in Austin, Texas, conceptually supports review and consideration of the innovative regulatory policies and practices identified herein as "best practices;" and be it further

RESOLVED, That NARUC recommends that economic regulators consider and adopt as many as appropriate of the regulatory mechanisms identified herein as best practices; *and be it further*

RESOLVED, That the Committee on Water stands ready to assist economic regulators with implementation of any of the best practices set forth within this Resolution.

Sponsored by the Committee on Water Adopted by the NARUC Board of Directors July 27, 2005

PMA-4







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State Utility Regulation

State Regulatory Programs

Regulatory Practices

Distribution System Investment Charge (DSIC)

Prospectively Relevant Test Year

Acquisition Adjustments

Construction Work In Progress (CWIP)

Decoupling

Pass-Through Adjustments

Rate Consolidation

Mediation & Settlement Procedures

Defined Timeframes for Rate Cases



Distribution System Investment Charge (DSIC) for Water and Wastewater Systems

DSIC was first implemented in Pennsylvania in approximately 1996 and allows for rate increases, outside of a general rate proceeding, for non-revenue producing investments to replace aging infrastructure. In Pennsylvania, the program has operated for almost 10 years with no known customer complaints. Benefits of the program include more efficient and timely investment of capital, significant progress in replacing aging infrastructure, enhanced service quality, reduction of water lost through leaks, avoidance of rate shock, and others. As water supplies become more stressed in the future due to many factors, reducing water lost through aging infrastructure will become more important. Such programs typically include protections for customers such as limits on the amount of incremental revenues that can be collected, exclusion of capital projects that are revenue producing, and true-up mechanisms.

States with DSIC



California

Infrastructure investment Surcharge Mechanism (IISM) — pilot basis for California American Water's Los Angeles District

Connecticut

Water Infrastructure and Conservation Adjustment (WICA)

Delaware

Distribution System Improvement Charge (DSIC)

Illinois

Qualifying Infrastructure Plant Surcharge (QIPS)

Indiana

Distribution System Improvement Charge (DSIC)

Missour

System Infrastructure Charge (SIC)

New Hampshire

Water Infrastructure and Conservation Adjustment (WICA) — pilot basis for Aquarion Water

New Jersey

Distribution System Improvement Charge (DSIC)

New York

Distribution System Improvement Charge (DSIC)

Join NAWC

State Utility Regulation





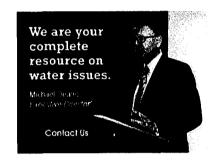
Ohio

System Infrastructure Charge (SIC)

Pennsylvania

Distribution System Improvement Charge (DSIC)

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Biosolids

PMA-5

Rating Methodology

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Moody's Global Infrastructure Finance

December 2009

Global Regulated Water Utilities

Summary

This Rating Methodology explains Moody's approach to rating privately financed regulated water utilities and provides guidance as to how the different analytical factors are combined.

Privately financed regulated water utilities are still relatively rare in the overall global water utility universe. Given the importance of water supply and the health risks related to its service provision, the sector maintains strong links to national, regional or local governments. Full privatisation of the entire value chain of water and wastewater services remains rare, with the UK being the main exception.

There are a variety of business models, with varying degrees of private sector involvement. In the rated universe, companies have also adopted a range of funding options. The most innovative financing structures have been developed in the UK, where a number of water companies have overlaid structural enhancements on typical long-dated capital market funding, incorporating features seen in other infrastructure sectors.

In this Rating Methodology, we discuss the four key rating factors that constitute Moody's analytical framework for rating regulated water utilities and additional considerations.

The key factors are:

- Regulatory Environment & Asset Ownership Model
- Operational Characteristics & Asset Risk
- Stability of Business Model & Financial Structure
- Key Credit Metrics

This methodology does not apply to water utilities financed under the US public finance model or to privately financed, public infrastructure projects ("PFI" or "PPP"), for which Moody's has published separate Rating Methodologies: "Analytical Framework for Water and Sewer System Ratings", published in August 1999; "Operating Risk in Privately-Financed Public Infrastructure (PFI/PPP/P3) Projects", published in December 2007; and "Update: Privately-Financed Public Infrastructure (PFI/PPP/P3) Projects with Partial Market Revenue Risk", published in November 2008.



Each of these rating factors encompasses a number of sub-factors, which we discuss in detail in this report. We also provide a rating grid that maps each of the factors, sub-factors and financial metrics, to broad letter-rating categories.

The purpose of this methodology and grid is to provide a tool to gauge approximate credit profiles within the regulated water sector. While the factors and sub-factors within the grid are designed to capture the fundamental rating drivers for the sector, this grid does not include every rating consideration and will not fit every business model perfectly. Furthermore, most of the sub-factor mappings use historical financial results while ratings also consider forecast results. As such, the grid-indicated rating is not expected to always match the actual rating of each company; our objective is for users of this methodology to be able to estimate a company's rating (senior unsecured ratings for investment-grade issuers and corporate family ratings for speculative-grade issuers) within two alphanumeric notches.

Furthermore, certain more generic factors (including corporate governance, management strength, financial disclosure and liquidity arrangements) remain important inputs into our ratings. Importantly, given continued government involvement and ownership in many regulated water utilities, we also apply our rating methodology for Government-Related Issuers ("GRIs"), as appropriate, to the water sector. However, all these considerations apply to all rated corporate sectors; as a result, we have chosen not to cover these issues in depth within this Rating Methodology.

This publication includes the following sections:

- About the Rated Universe: An overview of the rated regulated water utilities.
- About this Rating Methodology: A description of our rating methodology, including a detailed explanation of each of the key rating factors.
- Structural Considerations and Sources of Rating Uplift from Creditor Protection: A discussion of potential additional rating uplift through credit-enhancing features and covenants in a company's financing structure.
- Assumptions & Limitations: A comment on the rating methodology's assumptions and limitations, including
 a discussion of other rating considerations that are not included in the grid.

Appendix I of this report provides a summary of the rating grid and key rating factors.

In the appendices, we also provide tables that illustrate the application of the methodology grid to 23 of the 26 publicly rated regulated water utilities with explanatory comments on some of the more significant differences between the grid-implied rating and our actual rating (Appendix II), a brief industry overview (Appendix III), and a discussion of key rating issues for the regulated water sector over the medium term (Appendix IV).

About the Rated Universe

For the purposes of this methodology, we define regulated water utilities as issuers whose principal line of business is the provision of water and/or wastewater³ services along the entire value chain of the process (as explained in Appendix III). Services may be provided under contract or concession agreements or direct licensing arrangements with the relevant governmental authority, and the assets may be owned outright by the issuer or operated under the terms of a concession or licence. For clarification, the methodology intends to capture only water companies that are responsible for funding the water and/or wastewater infrastructure assets indefinitely or for the duration of the concession or operational contract. It does not capture pure service operators. Issuers that are owned by a government authority are captured by this methodology if they can be considered separate legal entities and not an integral part of the government administration.

See Moody's Rating Methodology: "The Application of Joint Default Analysis to Government Related Issuers", April 2005; Special Comment: "The Incorporation of Joint-Default Analysis into Moody's Corporate, Financial and Government Rating Methodologies", February 2005; and Special Comment: "Rating Government-Related Issuers in European Corporate Finance", June 2005.

Depending on the jurisdiction or the industry set-up, different terminology for the wastewater services may be used, including (but not limited to) sewerage or sanitation services. For simplicity we will refer to wastewater services throughout this report.

This methodology encompasses different types of financing for water utilities, e.g. general corporate funding structures as well as more highly leveraged financing structures with credit enhancing features. However, privately financed, public infrastructure projects are not subject to this rating methodology, but would fall under Moody's rating methodology for PPP and PFI transactions. For further discussion of the rating implications of financing sources, please refer to "Structural Considerations and Sources of Rating Uplift from Creditor Protection" below.

This methodology does not capture larger multi-utilities, whose activities may include the provision of regulated, monopoly-based water and wastewater services, but do not represent the vast majority of overall group activities. The credit quality of the relevant business segment, however, can be scored under this methodology. For example, Sociedad General de Aguas de Barcelona, S.A. (AGBAR) and United Waterworks, Inc are both covered by the methodology whilst the parent company, Suez Environnement, is not.

Moody's currently rates 26 water utilities (including five holding companies) that we regard as separate legal corporate entities, i.e. detached from the relevant government administration. These issuers currently account for around US\$44 billion of total debt instruments rated. Figure 1 provides a list of all rated regulated water utilities, showing their locations, ratings and amount of rated debt.

Figure 1

Rated Regulated Water Utilities

200 000 1000					/493(0)4/9)
			S Guine in		
Europe	x-(0.001x)/s	330_V			s survivori
Acquedotto Pugliese S.p.A.	Italy	GRI	Baa3 [12]	Negative	268
Bratislavska vodarenska spolocnost, a.s.	Slovakia	GRI	Baa2 [11]	Stable	0
Sociedad General de Aguas de Barcelona, S.A. (AGBAR)	Spain		A2	UR-D	0
Anglian Water Services Limited	UK	CFR	Baa1	Stable	7,132
Dwr Cymru Cyfyngedig	UK	CFR	A3	Stable	2,603
Northumbrian Water Limited	UK		Baa1	Stable	1,071
Severn Trent Water Limited	UK		A3	Stable	4,458
Severn Trent Plc	UK		Baa1	Stable	*** 4,598
South East Water Limited	UK		Baa2	Stable	594
South Staffordshire Water Plc	UK		Baa2	Stable	57
Southern Water Services Limited	UK	CFR	Baa1	Stable	4,196
Sutton & East Surrey Water Plc	UK		Baa1	Stable	162
Thames Water Utilities Limited	UK	CFR	Baa1	Stable	7,770
Veolia Water Central Limited (formerly Three Valleys Water Plc)	UK		А3	Negative	325
United Utilities Water Plc	UK		A3	Stable	5,664
United Utilities Plc	UK		Baa1	Stable	*** 6,695
Wessex Water Services Limited	UK		A3	Stable	1,704
Yorkshire Water Services Limited	UK	CFR	Baa1	Stable	3,883
North America					
American Water Works Company, Inc.	US		Baa2	Stable	*** 2,215
New Jersey American Water Company, Inc.	US		Baa1	Stable	200
Pennsylvania American Water Company	US		Baa1	Stable	412
Golden State Water Company	US		A2	Stable	125
Pennichuck Water Works, Inc.	US		Baa3	Stable	50
Jnited Waterworks, Inc.	US		Baa1	Negative	88
Latin America					
Companhia de Saneamento do Parana - SANEPAR	Brazil	GRI	Ba3 [13]	Negative	94

Rated Regulated Water Utilities

Note: * senior unsecured issuer or corporate family rating; number in brackets reflects BCA, where applicable

We note that the ratings for the five holding companies, namely AGBAR, Severn Trent Plc, United Utilities Plc, American Water Works Company, Inc. and United Waterworks, Inc., may reflect notching for structural subordination and their actual ratings therefore do not necessarily match the grid-indicated outcomes, which relate to the consolidated credit quality of their groups, before taking into account any structural subordination. For this reason, two of these holding companies, Severn Trent Plc and United Utilities Plc, are excluded from the detailed mapping of the factors in Appendix II, and only the relevant operating entity is captured.

Four of the rated water utilities are considered GRIs, as they remain wholly or partly owned by national or regional governments. Therefore, their ratings reflect the application of Moody's joint default analysis under our rating methodology for GRIs. In these cases, the methodology presented in this report serves to assess the baseline credit risk of the issuer, over which our assessments of government support and default dependence are subsequently layered in accordance with our GRI methodology. We exclude Korea Water Resources Corp. from the tables in Appendix II, which provides the detailed scoring of the water companies under this rating methodology, given that — despite the relevance of the general factors addressed within this rating methodology — the company's final rating is driven primarily by its strong linkage to the A2-rated Korean government.

As shown above, the majority of rated issuers are located in Europe, principally in the UK, which accounts for around 93% of the rated debt in the universe of rated regulated water utilities. The UK (more specifically England and Wales) remains the only market in Europe where the entire value chain of water and wastewater services has been fully privatised. This fact combined with the substantial scale of operators and a well-established and transparent regulatory framework for the UK water sector resulted in significant investor interest in the sector. It also somewhat explains the high use of capital market funding compared to other regions.⁴

Given the prominence of the UK water sector in the debt capital markets, we have provided and will continue to provide extensive detailed research for this geographical market. Such specific regional research will remain relevant for the analysis of key rating drivers as part of the assessment of the relevant issuers' credit quality.

Within the rated universe AGBAR is the only regulated water utility that not only operates assets held under licence or long-term concessions, but is also active as an operational service provider. AGBAR's vast portfolio of concession activities includes asset ownership arrangements in relation to the water and wastewater services provided to Barcelona, its most important service area, as well as AGBAR's international operations in the UK and Chile, which altogether account for around 75% of the group's EBITDA (generated in the water segment).

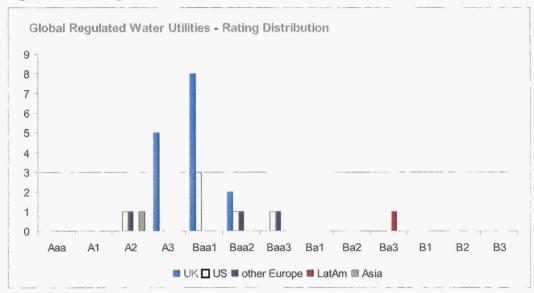
Figure 2 summarises the rating distribution in the sector:

^{**} as at 15 December 2009

^{***} rated consolidated group debt

We note that the above summary excludes around US\$1.5 billion of debt in relation to the UK water sector, which has been issued by monoline-guaranteed funding vehicles.

Figure 2 - Rating Distribution



The rating distribution is largely driven by the UK water sector. Based on the senior unsecured issuer and corporate family ratings assigned and included in the graphic distribution shown above, the average sector rating globally is Baa1. However, the average debt rating is A3.⁵

About this Rating Methodology

Moody's rating methodology for regulated water utilities incorporates the following steps.

IDENTIFYING KEY RATING FACTORS

This rating methodology focuses on four broad rating factors:

- Regulatory Environment & Asset Ownership Model
- II) Operational Characteristics & Asset Risk
- III) Stability of Business Model & Financial Structure
- IV) Key Credit Metrics

The first two factors relate to the fundamental business characteristics of a water utility. The third factor aims to capture the dimension of credit risk associated with potential changes to an issuer's business or capital structure, which may result from its strategy on corporate activity, diversification and/or financial policies. The fourth rating factor comprises four key financial metrics that we most commonly employ when examining regulated water utilities.

Finally, we consider whether the final rating should be adjusted to incorporate uplift from structural enhancements that may be incorporated in the company's financial arrangements. The effectiveness of any such enhancements is graded to determine the appropriate uplift as described in the section "Structural Considerations and Sources of Rating Uplift from Creditor Protection" below.

A corporate family rating is an opinion of a corporate family's ability to honour all of its financial obligations and is assigned to a corporate family as if it had a single class of debt and a single consolidated legal entity structure. A corporate family rating does not reference an obligation or class of debt and thus does not reflect priority of claim. It applies to all affiliates under the management control of the entity to which it is assigned. We note that the majority of rated highly leveraged financing transactions that have been executed in the UK achieve a corporate family rating of Baa1, which incorporates the benefit from a number of structural credit enhancements. Under these funding structures issuers typically issue two classes of debt with differing levels of seniority and priority of claim. The majority of rated debt is issued within the more senior tranche of debt, which benefits from additional credit-enhancement. Therefore, the majority of rated debt within the UK is at the A3 rating level rather than the Baa1 level.

MAPPING FACTORS TO THE RATING CATEGORIES

The four broad rating factors are broken down into 13 sub-factors (9 sub-factors underlying the first three factors plus four credit metrics). Under the methodology, an issuer's characteristics are scored for each subfactor according to qualitative and quantitative measures defined for each broad rating category (i.e. Aaa, Aa, A. Baa. Ba. B and Caa).

With respect to the first three key factors, we have determined what we consider appropriate ranges for each broad rating category. The methodology aims to capture the characteristics of all potential corporate issuers, and thus also ranks theoretical features not actually yet encountered within the rated universe. Features that we associate with a very low degree of credit risk are classified in the Aaa or Aa categories, whilst characteristics that we believe imply a very high degree of credit risk and could cause an issuer to default are classified in the single-B or Caa categories.

The ranges of credit metrics that represent the fourth key factor have been mapped to broad rating categories for an issuer that presents moderate investment-grade characteristics in all other key factors (i.e. principally in the A-Baa range). Thus, utilities with stronger business risk characteristics than those commensurate with a rating in the A or Baa range can sustain lower credit metrics and still achieve a solid investment-grade rating.

Recognising the stability and predictability of a water utility's cash flow generation, thresholds of credit metrics required for each broad rating category are less demanding than for many corporate issuers in other industries. They are, however, similar to ratio thresholds used in rating methodologies for other infrastructure issuers, which show a similarly low risk profile, e.g. regulated electric and gas networks, operational toll roads or airports.

WEIGHTING FACTORS AND RATING SCORES

The following table shows the weightings applied to each key factor.

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Regulatory Environment & Asset Ownership Model	40%
Operational Characteristics & Asset Risk	10%
Stability of Business Model & Financial Structure	10%
Key Credit Metrics	40%

As credit metrics are already adjusted to reflect a generally high degree of debt capacity of a regulated water utility, they are assigned a relatively high weighting, accounting for 40% of the final score. However, this is balanced by an equivalent 40% weighting of the first factor, Regulatory Environment & Asset Ownership Model. This factor recognises the fundamental characteristics of the regulatory regime and its cost recovery provisions as well as the business model applied by the relevant utility, considering the different risk proposition of asset ownership and management contracts. These aspects are of paramount importance in determining the utility's overall business risk and thus debt capacity.

As shown below, within each key factor, individual sub-factors have received an individual weighting depending on their deemed importance for the assessment of a water utility's credit quality.

4. d) RCF / Capex						5%	1
4. c) FFO / Net Debt		5%	;				
4. b) Net Debt to Reg	ulated Asset I	Base OR Debt	:/Capitalisati	on		15%	,
4. a) Adjusted Intere	st Coverage O	R FFO Interes	st Coverage			15%	
4. Key Credit Metric	S	***				40%)
3. c) Targeted Propo	rtion of Reven	ues Outside (Core Water a	nd Wastewate	r Activities	3.33%	
3. b) Ability & Willing	gness to Increa	ase Leverage				3.33%	
3. a) Ability & Willing		3.33%)				
3. Stability of Busine		10%					
2. b) Scale & Comple		5%					
2. a) Operational Effi		5%					
2. Operational Chara		10%					
1. d) Revenue Risk		3%					
1. c) Cost and Investr		12%					
1. b) Asset Ownership		10%					
1. a) Stability & Pred		15%					
1. Regulatory Enviro	nment & Asse	et Ownership	Model			40%	

We weight lower rating scores more heavily than higher scores for two reasons. In the first instance, we need to adjust for those situations where an issuer exhibits weak characteristics across the first three factors, which are not typically encountered within the rated universe and which would require more demanding thresholds for the credit metrics. Secondly, we recognise that a serious weakness in one area often cannot be completely offset by a strength in another area and that the lack of flexibility normally associated with high degrees of leverage can heighten risk.

DETERMINING THE FINAL RATING

The steps outlined above produce a final distribution of scores by rating category. The percentage score in each category is then multiplied by a value from 1 for Aaa to 18 for Caa to map to a final rating (before adjustment for creditor protection), as shown in the following table.

Rating Category	Aaa	Aa	Α	Baa	Ba	В	Caa
Value	1	3	6	9	12	15	18

This weighted average score is mapped to the table below, and an overall alpha-numeric rating is assigned based on where the score falls in the range.

T. T. Miller Cold Conner (
Aaa	< 1.50
Aa1	$1.50 \le x < 2.50$
Aa2	$2.50 \le x < 3.50$
Aa3	$3.50 \le x < 4.50$
A1	$4.50 \le x < 5.50$
A2	$5.50 \le x < 6.50$
А3	$6.50 \le x < 7.50$
Baa1	$7.50 \le x < 8.50$
Baa2	$8.50 \le x < 9.50$
Baa3	$9.50 \le x < 10.50$
Ba1	$10.50 \le x < 11.50$
Ba2	$11.50 \le x < 12.50$
Ba3	$12.50 \le x < 13.50$
B1	$13.50 \le x < 14.50$
B2	$14.50 \le x < 15.50$
В3	$15.50 \le x < 16.50$
Caa1	$16.50 \le x < 17.50$
Caa2	$17.50 \le x < 18.50$
Caa3	≥ 18.50

Finally, we consider whether the final rating should be adjusted to incorporate uplift from structural enhancements that may be incorporated in the company's financial arrangements. The effectiveness of any such enhancements is graded to determine the appropriate uplift, as described in the section "Structural Considerations and Sources of Rating Uplift from Creditor Protection" below. This allows us to apply the methodology to regulated water utilities that have adopted certain credit-enhancing structural features typical of highly-geared financing structures.

APPLYING THIS RATING METHODOLOGY / OUTLIER DISCUSSION

Appendix II provides a table showing how each company maps for the specific sub-factors. We also highlight issuers whose grid-indicated performance for a specific factor or sub-factor is higher or lower by two or more broad rating categories from the actual rating and discuss general reasons for such outliers within a given factor or sub-factor.

Rating Factor #1: Regulatory Environment & Asset Ownership Model

WHY IT MATTERS

Regulated water utilities typically provide monopoly-type, price-inelastic services that lend themselves to high levels of business visibility and revenue stability. As a result, regulated water utilities – in line with other infrastructure operators – are likely to have a longer-term strategic and financial horizon than most other corporate sectors. Accordingly, assessing the historical and expected stability of the regulated water utility's business and cash flow generation is a critical component of our analysis. Generally speaking, revenues and cash flows are a function of tariff levels and the tariff-setting mechanisms. Tariffs are embedded in the broader framework of the applicable regulatory environment and/or a utility's concession agreement or lease contract. As such, the characteristics and track record of the regulatory regime or concession framework are key in assessing the overall stability of a water utility's business profile.

However, while this rating factor examines the extent to which mechanisms are in place to ensure the relative stability of a regulated water utility's cash flows, the question of whether the utility makes strategic decisions that may change its business conditions to the detriment of creditors is covered later in this methodology, in Rating Factor #3.

HOW DO WE MEASURE IT?

We examine four sub-factors to assess a water utility's regulatory environment and business model, which are qualitative rank-orderings of risk based on Moody's examination of the relevant information and precedents:

- a. Stability & Predictability of Regulatory Environment
- b. Asset Ownership Model
- c. Cost and Investment Recovery (Ability & Timeliness)
- d. Revenue Risk

(a) Stability & Predictability of Regulatory Environment

This sub-factor captures the level of credit strength that derives from the regulatory and/or concession framework under which the water utility operates.

The essentiality of water and wastewater services usually means that services are provided on a monopoly or quasi-monopoly basis. Therefore the provision of water and wastewater services is commonly regulated on a national or regional basis. The stability and predictability of such regulatory regime is a key determinant in assessing a water utility's business risk profile, which is why this sub-factor has been assigned a weighting of 15%.

We assign the highest score of Aaa to the regulatory regime applied to the UK water sector (i.e. the water companies in England and Wales), which has a history of around 20 years and relies on clearly defined risk allocation principles, which have been consistently applied and transparently disclosed to the public.

Consequently, the lowest possible score will be assigned in a case where the jurisdiction of the issuer has not implemented a defined regulatory framework and/or has a track record of unilateral changes being made to the terms and conditions of the concessions in the water or similar infrastructure sectors that are relevant precedents, without suitable compensation being made to the concessionaire.

Concerns about the independence of the regulatory authorities and the risk of politically motivated intervention in the regulatory process will also result in a lower score.

For example, we assigned a single-B score to the regulatory framework applying to Bratislavska vodarenska spolocnost, a.s. (BVS) of Slovakia, reflecting a history of political interference, which affected tariff decisions.

When assessing the scores for this sub-factor Moody's also takes into account the general rule of law within the jurisdiction in which the relevant utility operates, and whether an independent judiciary exists that allows for legal rights to be enforceable in practice. For a water company that is located in a country with generally poor institutional strength, the assigned score may be lower than the theoretical regulatory framework may imply.

(b) Asset Ownership Model

This Rating Methodology is designed to cover companies that own their assets outright in perpetuity or for a defined time horizon under a concession or other contractual agreement.⁶

In those cases where the water and wastewater assets are owned outright, Moody's assesses the implication of ownership rights that are subject to a licence and the risk of licence termination. Moody's also considers whether the right to operate the assets is long term in nature or may only be granted over a short-term period. If the time horizon of asset exploitation is limited, Moody's will also take into account the recovery mechanism in relation to any residual asset value at the end of a concession or other contractual arrangement when scoring this sub-factor.

A water company that owns all its key water and wastewater assets outright in perpetuity and has ultimate control over them would score the highest rating (i.e. Aaa). On the other end of the spectrum, a utility that holds the assets under a concession, which may be relatively short term or does not provide clear principles for the recovery of the residual asset value at the termination of the concession, would score relatively low (i.e. Ba or lower).

⁶ Please refer to Appendix III for further details on the water industry sector and the different business models applied.

Most of the rated regulated water utilities own their key assets under a licence regime or long-term concessions. This is reflected in the relatively high scores achieved under this sub-factor. Outright ownership in perpetuity is less common, with the exception of Spain (e.g. AGBAR's Barcelona concession) and certain jurisdictions in Central and Eastern Europe.

If the assets are held under a concession, a utility's exploitation rights may be limited to the term of the concession, which will be reflected in the scoring. For example, Acquedotto Pugliese, an Italian municipal water utility, operates its assets on the basis of a concession that expires in 2018. Although, the legal framework protects the company from losing its concession without compensation, the mechanism for compensation is untested. This degree of uncertainty is reflected in the score of Baa for this sub-factor.

Similarly, SANEPAR operates pursuant to long-term concession agreements with various municipalities in the Brazilian state of Paraná, which own the related infrastructure assets. The Baa rating for this subfactor reflects the fact that over 60% of its concession agreements expire in the long term, with the average concession life between 20 and 30 years. These concession contracts have written provisions that entitle the company to the recovery of the assets' residual value at termination; however, these provisions have not been tested as, to date, the majority of the terminated concessions have been renewed. The company could score higher, once it has established a long-term track-record of concession renewal at termination

Similar to the sub-factor above on the Regulatory Environment, also for this Asset Ownership Model subfactor, we will consider the general rule of law, and the value and enforcement of asset property rights. For example, if there is a heightened risk of expropriation of assets for political reasons, we would score a company lower, even though it may own its assets. Moody's notes that the expropriation risk may be higher for water and wastewater assets than for other infrastructure assets, given the significance of the services provided.

In the US, this type of risk is generally seen as very limited, but could develop if the local government resorts to claiming "eminent domain" over the water system. This is currently the position Pennichuck Water Works faces in its service area. Although the long legal battle has certainly absorbed management's time and resources, Moody's has not taken any rating action because we believe any "fair value" proceeds paid for the system must be directed to debt repayment as per the terms of the outstanding obligations. However, we score the US water utilities as Aa instead of Aaa on the basis of this precedent.

(c) Cost and Investment Recovery (Ability & Timeliness)

As part of our assessment of the overall regulatory or concession regime, the ability of a regulated water utility to recover the cost of its operations and/or investment in a timely manner is another key determinant for the evaluation of the relative stability of cash flow generation. Whilst the first sub-factor under this Rating Factor #1 addresses the overall stability and predictability of the regulatory and/or concessionary framework, this subfactor looks at the risk allocation between the water utility and its customers based on the tariff regime.

The most flexible arrangement is one where the water utility is free to adjust its tariffs as required, without any approvals or reviews by the relevant regulator or government. As a result, this type of arrangement would score Aaa for this sub-factor. This is clearly a situation unlikely to be encountered in practice. At the other end of the spectrum are mechanisms that do not adequately cover the operator's costs, potentially implying politically motivated low tariffs and hindering the viability of the utility in the absence of government support.

In general, most tariff formulas are designed to achieve a balance between reliability and quality of service standards, a degree of operational efficiency, protecting consumers from monopoly-overcharging and other social considerations, as well as allowing an adequate return for companies to satisfy their stakeholders (debt and equity capital providers).

The tariff formula applied under the UK regulatory framework, for example, allows for the recovery of operating expenditure and depreciation, which broadly resembles capital maintenance requirements, as well as a return on the regulated asset base set to cover the cost of funding through a combination of debt and equity. The return on capital thereby also reflects the funding cost of capital investments that grow the asset base. There is a moderate degree of risk allocation to the water utilities as cost recovery (both operational and financial) is based on ex-ante allowances set by the regulator at five-yearly price reviews.

We score the tariff regime in England and Wales at single-A reflecting the fact that there is strict regulatory oversight of tariff increases and that operators can be subject to challenging efficiency targets.

In the US. Moody's views each state individually and considers the various factors that affect the utilities' profitability, including the type of fixed-versus variable-rate design allowed, historically authorised ROEs, and the existence of riders or other mechanisms that permit recovery of operating and capital costs outside of a general rate case. Furthermore, we will take into account contractual obligations that restrict a water utility's ability to submit a rate case within a defined period of time. For example, in the rating of American Water Works, we previously took into consideration that following its purchase by RWE in 2001, it would agree not to seek rate increases in a number of states for a defined period of years. This led to some delay in the ability to request rate increases based on investments made in the interim period.

At the lower end of the spectrum we score the tariff formula and its application in single-B for BVS, based in Slovakia, and SANEPAR, based in Brazil.

In case of BVS, the application of a price cap formula based on an unclear efficiency factor resulted in flat water tariffs in recent years. The tariff setting is effectively largely politically driven, which depresses this score for BVS. Furthermore, the tariff formula applied for Slovakian water companies in general does not allow remuneration of maintenance expenditure for assets that had initially been funded through EU subsidies. Effectively, this keeps tariffs artificially low and inadequate to cover for the cost of asset consumption. Whilst revenues should in theory be sufficient to cover operating expenditure, which may support a Ba-score, there have been limited tariff increases in the recent past.

SANEPAR's concession contracts lack provisions for tariff adjustments, so water rates are set by the state government, leaving ample room for politically driven decisions. The company is rated at the lower end for cost and investment recovery because tariffs have been frozen since 2005.

In scoring this sub-factor we also consider whether the tariffs can actually be afforded by the users of the water and wastewater services. This could be measured for example through the level of unpaid bills. If the level of unpaid bills is very high we would score a water utility's ability to recover its costs lower than the theoretical tariff formula may imply. Acquedotto Pugliese is such an example: the tariff formula applied to the company, in theory, follows similar principles as the UK regime and allows for adequate investment recovery. However, in addition to the lack of transparency, which is captured by a lower score in the sub-factor on the Regulatory Environment, the Baa-score for Acquedotto Pugliese under this sub-factor reflects a very high level of bad debt outstanding more than 12 months, which effectively constraints its ability to fully recover its costs.

(d) Revenue Risk

Under this sub-factor we intend to assess the potential volatility of revenues generated by a regulated water utility. We assess this risk by taking into account such factors as a company's exposure to fluctuations in the volume of water used. Volume of usage may be affected by different weather patterns from year to year or a company's customer structure and reliance on a particular revenue stream. For example, if a water utility relies on one particular customer to generate a large proportion of its revenues and this customer decides to choose a different service provider or closes its operations, a significant portion of revenues could be lost. Similarly, a higher exposure to industrial customers or revenues generated from new housing developments may have a negative impact on demand patterns and therefore revenues in a recession scenario.

When scoring this sub-factor we also consider whether a regulatory regime may provide a certain element of protection, whereby companies may be allowed to adjust tariffs within a regulatory period or at the next price review to reflect the divergence of collected versus allowed revenues due to fluctuating volumes,

Issuers that are effectively immune from volume or other revenue volatility risks will score Aaa. Water companies that are not immune but subject to regulatory safeguards that allow them to adjust tariffs under a tested and transparent procedure will score Aa or single-A, depending on the degree of protection provided. Water utilities that are exposed to seasonality or weather effects and/or change in demand patterns, which result in revenue volatility in excess of high single-digit percentages would generally score lower than Baa for this sub-factor. Furthermore, water utilities with a generally higher reliance on new connections and or revenue concentration risk to particular customers or vulnerable industry sectors will generally score Baa to Caa, depending on the potential volatility of revenues.

For pure asset owners, which may have subcontracted the operations of the water and/or wastewater assets to a different party. However, we will shade the scoring based on the estimated credit quality of the operating counterparty, given that the asset owner may rely solely on a lease payment from one single contract party.

RATING GRID MAPPING

The following table shows the full mapping of each sub-factor to a broad rating category and the weighting of each sub-factor within Rating Factor #1.

diction	Aap	A.		Baa	B	a da esta de la compansión de la compans	C-J.:	Weighting
(a) Stability and Predictability of Regulatory Environment	Regulation is independent, well established (>15 years of being predictable and stable) and transparent (published methodologies clearly define risk allocation between companies and customers and are consistently applied, with public or shared financial model)	Regulation is independent, reasonably well established (>10 years of being predictable and stable) and transparent (published methodologies clearly define risk allocation between companies and customers and are generally consistently applied) Regulatory framework has been mostly predictable and stable in recent years and is supportive of utilities	Regulation is generally independent and developed (published methodologies set out principles of risk allocation between companies and customers and are based on established precedents in the same jurisdiction), and has above average predictability, although regulatory regime may be sometimes less supportive of utilities Utility regulatory body may be a state commission or national, state, provincial or independent regulator	Regulatory framework is well developed, with evidence of some inconsistency or unpredictabilit y in the framework's application OR Regulatory framework is relatively new and untested, but methodologies are based on established precedents and jurisdiction has history of independent and transparent regulation for other utility services Regulatory Environment may sometimes be challenging or politically charged	Regulatory framework is defined but there is a high degree of inconsistency or unpredictabilit y in its application; tariff setting is subject to negotiation and political interference; there has been a history of difficult or less supportive regulatory decisions; some precedents in the country of predictable regulation for other utility services	Regulatory framework is unclear, untested or undergoing significant change, with a history of political interference Utility regulatory body lacks a consistent track record and appears unsupportive, uncertain or highly unpredictable	Regulatory framework is not defined, unpredictable or politically driven	15.00%
(b) Asset Ownership Model	All key water and/or sewerage assets held outright in perpetuity	All key water and/or sewerage assets held outright under licence which can be terminated for underperformance, failure to meet certain financial parameters or insolvency OR held under long-term concession with clearly	All key water and/or sewerage assets held under long-term concession with clearly defined right to recover value of residual assets at termination/e nd of concession underpinned by highly rated entity but with undefined timeframe	All key water and/or sewerage assets held under long-term concession with entitlement to recover value of residual assets at termination/e nd of concession but procedures untested/unde fined	All key water and/or sewerage assets held under concession with recovery of residual asset value at termination/e nd of concession subject to negotiation OR held under short-term operating leases or mgmt	All key water and/or sewerage assets held under concession with no recovery of residual asset value at termination/e nd of concession OR held under short-term operating leases or mgmt contract	Issuer is in default under its licence, concession or lease/contract, likely to lead to termination Expropriation highly likely, no prospect of compensation	10.00%

Global Nego	iated water	Ountes						
				Baa	Ba	Supplied to	C i	Welghtin
		defined right to timely recovery of residual asset value at termination/e nd of concession underpinned by highly rated entity; clear track record of consistently applying concession termination / recovery regime	diversification, very established market position and very high renewal rate (>95%)	diversification, established market position and high renewal rate (>90%)	rate (>80%) Expropriation possible, but some prospect of compensation	(limited portfolio diversification) Expropriation likely, little or no prospect of compensation		
(c) Cost and Investment Recovery (Ability & Timeliness)	No regulatory or contractual impediment to adjust tariffs (no approval or reviews required)	Tariff formula allows for timely recovery of operating expenditure including depreciation and a fair return on all investment Depreciation allowance fairly reflects asset consumption All capital expenditure is included in asset base as incurred or fully covered by specific riders/surchar ges prior to the next rate case Minimal challenges by regulators to companies' cost assumptions	Tariff formula allows for recovery of operating expenditure including depreciation based on allowances set at frequent price reviews (5-yearly intervals or shorter) and a fair return on all efficient investment Depreciation allowance fairly reflects asset consumption Capital expenditure is included in asset base as incurred or partially covered by specific riders/surcharges prior to the next rate case Opex and capex can be subject	Tariff formula allows for recovery of operating expenditure including depreciation and return on investment but subject to retrospective regulatory approval or infrequent price reviews (> 5-yearly intervals) Some instances of revenue back-loading (e.g. depreciation allowance set below asset consumption or operating expenditure is capitalised) OR Rate/tariff reviews and cost recovery outcomes are usually predictable, although	Tariff formula does not take into account all cost components and depreciation is set below asset consumption Revenues allow coverage of most operating expenditure But investment is not clearly or fairly remunerated OR Rate/tariff reviews are inconsistent, with some history of unwillingness to make timely rate changes	Tariff formula does not take into account all cost components and depreciation is set below asset consumption Revenues only cover cash operating expenditure OR Highly uncertain rate reviews and cost recovery outcomes; regulators may engage in second guessing or spending decisions or deny rate increases to fund ongoing operations	Revenues only partially cover cash operating costs	12.00%
			to efficiency tests Limited instances of regulatory challenges; limited delays to rate or tariff increases or cost recovery	application of tariff formula may be unclear; potentially greater tendency for regulatory intervention and/or to disallow or delay costs				

	Ana	<u>A4</u>			. Da		- Gaa	Weighting
(d) Revenue Risk	No exposure to volume or customer concentration risk	Little exposure to volume risk and/or timely recovery mechanism Little concentration of volumes and revenues to one particular customer	Some exposure to volume risk but recovery mechanism with some delay through regulatory price review; generally limited volatility expected Some concentration of volumes and revenues to one particular customer	Moderate exposure to volume risk but recovery mechanism with some delay through regulatory price review; moderate volatility expected AND/OR Moderate concentration of volumes and revenues to one particular customer and/or industry sector	Significant exposure to volume risk but recovery mechanism, which may not follow regular intervals; significant volatility expected OR Significant concentration of volumes and revenues to one particular customer and/or industry sector	High exposure to volume risk with no clear recovery mechanism OR High concentration of volumes and revenues to one particular customer and/or industry sector	Very high exposure to volume risk with no existing recovery mechanism OR Very high concentration of volumes and revenues to one particular customer and/or industry sector	3.00%

Rating Factor #2: Operational Characteristics & Asset Risk

WHY IT MATTERS

The regulatory framework and business model are important; however, a water utility's overall credit quality is also influenced by its operational performance and by the size and complexity of its capital programme. This second rating factor focuses on those factors related to the operational efficiency and asset quality of a regulated water utility that are most likely to influence its future financial position.

HOW DO WE MEASURE IT?

In assessing the operational characteristics and asset risk of a water utility, we use the following sub-factors:

- a. Operational Efficiency
- b. Scale & Complexity of Capital Programme & Asset Condition Risk

The first sub-factor is a qualitative assessment based on public information or discussions with management. The second sub-factor is a quantitative measure based on publicly available information (where public information may be limited, Moody's will base its assessment on our own estimates), supported by qualitative data on the absolute asset condition of a company.

(a) Operational Efficiency

This sub-factor is designed to measure the degree of efficiency in operational performance in the context of the relevant indicators assessed by the regulatory bodies in the country or area of operation. We do not intend to measure the operational performance in terms of absolute standards, as a company's cost structure and asset base may be the result of historically embedded characteristics.7

Examples of performance standards are water quality, water pressure, level of leakage, number and length of service interruptions, sewer flooding or the general level of customer service. Furthermore, we take into account (where such information is available) the amount of operational and/or capital expenditure in comparison with the regulatory allowances, and a company's track record in out- or underperforming such

For example, at the time of their privatisation in 1989 the water utilities operating in England and Wales inherited a relatively old asset base, which could be considered of a comparatively low standard and condition due to years of underinvestment in maintenance. However, under the regulatory regime the water companies have been set clear targets to improve asset and service quality. Therefore, these companies are judged on their relative performance in achieving these goals through comparative competition with their industry peers, and not on their absolute performance.

allowances. We would expect that all water utilities are monitored in respect of specific performance measures either by regulators or other supervisory authorities, such as environmental agencies or government ministries. However, if we were to encounter a case where no such monitoring is conducted, we would score the respective company in the single-B category for this sub-factor to reflect the limited insight into the company's operational performance.

Consistent profitability with strong operating margins despite a challenging tariff model may also indicate efficient operations, although this would have to be viewed in light of the company's overall asset condition.

The grid is designed so that utilities that are performing in line with regulatory assumptions or the general national average would score Baa, whilst out- or underperforming companies would score higher or lower, respectively.

(b) Scale & Complexity of Capital Programme & Asset Condition Risk

This sub-factor considers the risk associated with a substantial capital programme, which may expose a water utility to execution risks and potential cost overruns. It is meant to capture the general operational risk of dealing with an extensive capex programme and/or very complex investment projects. The financing risk that a significant capex programme may pose, if it cannot be funded out of operating cash flows, is addressed as part of Factor #4 Key Credit Metrics.

This sub-factor is a quantitative assessment of capital expenditure in the context of the relevant asset base. This would be either a Regulated Asset Base where this concept is applied or the Fixed Assets (tangible and intangible)8 as reported in a company's statutory accounts.

For the purpose of this sub-factor, capital expenditure is measured before any government grants, construction subsidies or developers' contributions, to assess the full scale of the investment programme and potential execution risk.

Overall, water utilities with a relatively low capital investment requirement compared to their existing asset base would be considered less risky and would likely achieve a high score for this sub-factor. On the other hand, companies facing a very large investment programme compared to their asset base and/or projects of high technical complexity would score at the lower end of the spectrum.

We note that it is not uncommon in the water sector for subsidies from governmental authorities to customers to be embedded in the economic model of water utilities, particularly if these utilities rely only on customer tariffs to cover their costs and earn a return on their invested capital.

For example, the asset value of companies that have been privatised may not reflect the actual replacement costs of such assets and companies may be required to undertake very large capital investment programmes to maintain and upgrade their infrastructure compared to a relatively small regulatory asset base. These companies would score lower under this sub-factor. The operational leverage of these water utilities is effectively higher, notwithstanding the fact that water utilities may still be compensated for the embedded replacement costs as part of the water tariffs to enable them to achieve a fair market return on their investment.

Some regulatory frameworks or concession regimes may limit a company's exposure to capex-related risks, such as cost overruns. In these instances, the score under this subfactor may be adjusted to reflect regulatory arrangements that limit the water utility's exposure to cost overrun risks.

When scoring this sub-factor we will also take into account the underlying asset condition and the related risk of potential asset failure. A functioning asset base is paramount for the water and wastewater utilities to comply with their regulatory duties and ensure stability of future cash flow generation. Therefore, if a water utility has a history of serious asset failures or exhibits a significant deterioration in asset performance, it will achieve a score of Ba or lower under this sub-factor, depending on the severity of failures. Low scores for this sub-factor would primarily be expected for water utilities in emerging markets, whilst we would expect water utilities in developed countries to have a reasonably high asset quality.

We include intangible assets in the equation as companies may report their concession assets as intangibles. However, we do not include Goodwill as part of the Fixed Assets, on which the company will earn a return.

RATING GRID MAPPING

The following table shows the full mapping of each sub-factor to a broad rating category and the weighting of each sub-factor within Rating Factor #2.

	Aāa	Αğ	real party in	Baa	Fa	B		Velotio
(a) Operational Efficiency	Consistently achieves maximum results on all relevant performance measures (both cost efficiency and service levels)	Track record of very high performance (consistently at the efficiency frontier and in the top 10% on relevant key performance measures)	Consistent track record of outperforming regulatory opex and capex targets; above national average on relevant key performance measures	Performance in line with national average; no history of material opex and/or capex overruns	Some history of material opex and/or capex overruns; below national average on relevant key performance measures	Currently experiencing serious capex and/or oper coverruns; poor track record on relevant key performance measures	Very serious cost overruns or service failures could put issuer in default under its licence, concession or lease/contract	5.00%
(b) Scale and Complexity of Capital Programme & Asset Condition Risk	Annual total capital expenditure (maintenance & enhancement) ≤ 4% of total fixed assets or regulated asset base	Annual total capital expenditure (maintenance & enhancement) > 4% ≤ 6% of total fixed assets or regulated asset base	Annual total capital expenditure (maintenance & enhance-ement) > 6% ≤ 8% of total fixed assets or regulated asset base	Annual total capital expenditure (maintenance & enhancement) > 8% ≤ 12% of total fixed assets or regulated asset base	Annual total capital expenditure (maintenance & enhancement) > 12% ≤ 20% of total fixed assets or regulated asset base	Annual total capital expenditure (maintenance & enhancement) > 20% ≤ 30% of total fixed assets or regulated asset base	Annual total capital expenditure (maintenance & enhancement) > 30% of total fixed assets or regulated asset base	5.00%
	AND/OR	AND/OR	AND/OR	AND/OR	OR	OR	OR	
	No asset condition risk (i.e. full and immediate cost pass-through)	Well-developed asset base under tight regulatory supervision; asset performance is generally stable or improving	Well-developed asset base and no history of serious asset failure; asset performance is generally stable or improving	Company has a reasonably developed asset base; may have some precedents of serious asset failures but asset performance is now broadly stable	Small number of large and complex projects accounts for majority of capital programme AND/OR Asset base not fully developed; average asset performance is gradually deteriorating or there is some uncertainty about asset condition	One large and complex project accounts for majority of capital programme AND/OR Performance of most assets is materially deteriorating, with serious assets failures likely or ongoing	Capital programme includes one or more large projects of extreme technical complexity AND/OR Rapidly deteriorating asset performance or condition could put issuer in default under licence, concession or lease/contract likely to lead to termination	

Rating Factor #3: Stability of Business Model and Financial Structure

WHY IT MATTERS

This rating factor is intended to identify the likelihood that event risk could add uncertainty to future cash flow levels and divert resources away from creditors. Such decisions are a function of the ability and willingness of management and shareholders to change the business focus and the financial structure of the company. The ways in which a company will choose to address the needs of its different investors (e.g. shareholders and creditors) has a material impact on its overall credit quality.

HOW DO WE MEASURE IT?

Our assessment of shareholder and company strategy hinges on three sub-factors:

- a. Ability and Willingness to Pursue Opportunistic Corporate Activity (M&A, Disposals and Investments)
- b. Ability and Willingness to Increase Leverage
- c. Targeted Proportion of Operating Profit Outside Core Water and Wastewater Activities

(a) Ability and Willingness to Pursue Opportunistic Corporate Activity

This sub-factor allows us to score the risk that corporate activity, in the form of mergers and acquisitions, major disposals and investments, will impact future credit quality. We consider whether restrictions exist on management's discretion to pursue opportunistic investments, business combinations and other significant corporate initiatives that would alter the issuer's credit profile. Such restrictions can be regulatory, e.g. through licence conditions as is the case for the UK water sector, or contractual, e.g. through ring-fencing covenants.

In the absence of formal restrictions, we consider management's and shareholders' track record and objectives to gauge the future likelihood and potential impact of corporate activity. In essence, we assess how future cash flows are likely to be applied, and what the balance will be between cash flows applied to repay creditors and those applied to make investments to bolster shareholder returns.⁹

Based on the above considerations, the highest possible score for this sub-factor (which we deem commensurate with the Aaa category) entails a prohibition on the water utility from engaging in any form of corporate activity, either because of the specific mandate incorporated in the licence / concession agreement, the company's bylaws or other binding agreements (e.g. a contract with the state), or because of explicit covenant restrictions in financing agreements. We will score all other situation Aa through to single-B or Caa, depending on management's appetite for opportunistic corporate activity.

(b) Ability and Willingness to Increase Leverage

This sub-factor addresses the likelihood that a company may change its capital structure, based, again, on the degree of discretion available to management and shareholders, their strategy and track record.

A water utility with a conservative financial strategy that, in incurring additional indebtedness, would not compromise minimum financial parameters would score as a Baa for this sub-factor.

There is a distinction between the risk characteristics captured under this Rating Factor #3 and those considered in Rating Factor #4: Key Credit Metrics. Under Rating Factor #4, we assess an issuer's prospective financial profile based on its stated business plan and financial policies and on our views of the main variables affecting future cash flow generation (e.g. revenues, costs, capital expenditure). Any specific transaction that an issuer is committed or very likely to execute would be factored into our financial projections. Conversely, under Rating Factor #3, we assess the risk that future corporate activity, not identifiable yet, may alter an

The nature of the water utility's shareholders does not have a direct impact on credit quality, except in situations where GRI or other similar considerations apply. Rather, the intentions and priorities of shareholders may affect how we score this particular sub-factor. This sub-factor can be particularly important in situations where shareholder structures are in flux. For example, a shift towards private ownership may also entail a shift towards an increasing focus on shareholder value resulting in more shareholder friendly policies. However, a government-owned water utility may also be subject to high event risk if the government is seeking to extract dividends from the utility to apply to national budget considerations (e.g. investments in other types of infrastructure).

operator's current business and financial risk profile and the risk that current financial policies will be abandoned in pursuit of higher financial leverage.

Also considered is an issuer's willingness to issue equity to maintain its credit profile and mitigate the effects of increasing leverage. As the water utility sector is very capital intensive, negative free cash flows due to construction programmes are sometimes financed with short-term debt and then refinanced with longer-term debt offerings and common equity. Issuers that delay issuing equity (or holding companies that delay the "down-streaming" of equity to an operating subsidiary) to avoid dilution or concerns over book value per share may see pressure on the rating over time, particularly if the dividend policy is viewed as aggressive.

(c) Targeted Proportion of Operating Profit Outside the Core Water and Wastewater Activities

Shareholder returns may be enhanced by investing in businesses outside the core concession, with higher return expectations (e.g. a water technology service or construction & engineering business built on the expertise of the utility in the water and wastewater sector). Such investments typically entail higher risk than the usually regulated core water and wastewater activities and we generally view substantial investments outside the core concession area as a credit negative. This sub-factor is designed to adjust for the influence that contributions from higher-risk non-regulated business may have on a utility's financial performance and credit metrics.

Within the rating grid, the lowest possible score is attributed to an operator targeting over 20% of Operating Profit originating outside its core regulated activities (when the credit analysis may require a "blended" approach of the different businesses to assess the company's consolidated credit profile).

It is important to define the "core" water and wastewater activities. Generally, we would regard all regulated activities related to the abstraction, treatment, distribution and supply of water, as well as the collection and treatment of wastewater as core. These activities could be conducted under a licence or concession regime, For the avoidance of doubt, where a utility holds a number of different licences, concessions or contracts for separate regions or service areas, we would view the aggregate activities under such arrangements as being a single core business activity for the purposes of this rating grid.

A NOTE ON APPLYING RATING FACTOR #3 TO FINANCING STRUCTURES WITH **CREDIT-ENHANCING FEATURES**

Where we deem that the event risk protection included in a financing structure is strong, the score for the subfactors in Rating Factor #3 would usually be higher than for a utility that does not benefit from such protection. Therefore, the scoring would automatically add a degree of uplift to the final rating outcome. In other words, the rating uplift generated by event risk protection is achieved through the scoring of sub-factors in Rating Factor #3.

This is discussed in greater detail below in the section on Structural Considerations and Rating Uplift.

RATING GRID MAPPING

The following table shows the full mapping of each sub-factor to a broad rating category and the weighting of each sub-factor within Rating Factor #5.

Active Category		Aa			1.0	B Caa	Weightins
(a) Ability and Willingness to Pursue Opportunistic Corporate Activity (M&A, Disposals & Investments)	Covenants prohibit all corporate activity OR Corporate activity is outside of management mandate	Covenants or licence/conces sion largely limit corporate activity, with exception of certain defined permitted investments	Strong track record of no material corporate activity and stated intention to refrain from M&A and major investments	Moderate, may impact credit metrics for 18- 24 months only	Track record of repetitive, sizeable transactions	Highly likely to conduct frequent and very large opportunistic investments	3.33%
(b) Ability and Willingness to Increase Leverage	No additional indebtedness allowed without debt holders' consent	Additional indebtedess only allowed for capex under debt covenants and/or licence/conces sion terms	Financial covenants in principal debt instruments limit manage- ment ability to materially increase leverage	Conservative financial strategy, unlikely to compromise minimum financial parameters	Limited track record of consistent financial policies; likely to target high leverage	Track record of aggressive financial policies and very high leverage; likely to pay out creditors' financial cushion ahead of business pressures	3.33%
(c) Targeted Proportion of Operating Profit outside Core Water and Wastewater Activities	0% (=exclusive focus on core water and wastewater services) OR Covenants prohibit all other businesses	O-5% OR Covenants largely limit non-concession businesses, with exception of certain defined and low risk permitted businesses	5-10%	10-15%	15-20%	>20%	3.33%

Rating Factor #4: Key Credit Metrics

WHY IT MATTERS

The first three rating factors aim to capture the credit strengths and weaknesses afforded by the water utility's fundamental business and its financial policies. However, a company's ultimate credit profile must also incorporate its financial metrics. Two otherwise identical water utilities may exhibit radically different credit profiles due to different financial metrics.

When examining credit metrics, there is no single measure that invariably predicts the likelihood of default. We utilise metrics that measure both (i) the absolute capacity of the issuer to service its debt and (ii) the size of its debt burden relative to those of its peers. Leverage ratios aim to capture different measures of how easily an issuer can repay its debt; coverage ratios focus more on the ability to service the debt prior to repayment but may also take into account the necessary maintenance investments to ensure that the future cash flow generation is not impaired.

HOW DO WE MEASURE IT?

We use four key credit metrics when examining a water utility. Importantly, when examining credit metrics, our ratings also incorporate our "expected case", i.e. how we believe the metrics will evolve over the foreseeable future. The three credit metrics are:

- a. Adjusted Interest Coverage OR FFO Interest Coverage
- Net Debt to Regulated Asset Base (or Fixed Assets) OR Debt to Capitalisation
- FFO to Net Debt
- Retained Cash Flow (RCF) to Capex

These credit metrics will be calculated after making Moody's standard adjustments. 10 including for off-balance sheet debt and debt-like obligations and certain other re-classifications in the income statement and cash flow statement.

(a) Adjusted Interest Coverage OR FFO Interest Coverage

We use an interest coverage ratio that reflects that a proportion of the water tariffs, and therefore a water utility's cash flows, may not be available for debt service as it needs to be reinvested in the ongoing maintenance of the asset base.

As such, the Adjusted Interest Coverage ratio resembles more an EBIT Coverage or Debt Service Coverage ratio (assuming debt service consists primarily of interest payments). It aims to measure the amount of "headroom" afforded by the company's cash flows in servicing its debt burden after taking into account the cost of maintaining a stable asset base.

For water utilities whose regulatory tariff regime includes an allowance for depreciation in the revenue building block, we believe that EBITDA- or FFO-based interest coverage may limit the comparability of companies coverage, as the cash-flow generation to some extent depends on depreciation policies. 11 However, where the tariff formula is not based on consideration of Capital Charges, Moody's will use its standard FFO Interest Coverage Ratio with alternative banding.

The formula for the Adjusted Interest Coverage ratio is a variation on the FFO Interest Coverage used by Moody's for many corporate sectors. The standard FFO Interest Cover is adjusted for (i) the regulatory Capital Charges funded through revenues, and (ii) Non-Cash Interest expense where appropriate. It is also calculated on a net interest basis as follows:

FFO + (Net Interest Expense - Non-Cash Interest) - Capital Charges (Net Interest Expense - Non-Cash Interest)

Funds from Operations ("FFO"), which reflects Cash Flows from Operations ("CFO") excluding working capital movements, is a relevant measure of cash flows for water utilities, since working capital movements are typically not material; any unusual movements in working capital tend to be small one-off movements tied more to normal operating activities than to any strategic decisions. 12 FFO is net of the interest expense from the income statement, whether or not such interest expense translates fully into a cash payment, with adjustments made to issuers' financial statements as necessary if non-cash interest is material.

Net Interest Expense, based on the issuer's reported figures, incorporates our standard adjustments to interest expense (for example, re-classifying the interest component of operating lease rental expense). We use the amount of interest expense net of interest income, as many of the rated water companies tend to pre-fund their capital programme and hold significant amounts of cash on-balance sheet. Non-Cash Interest is deducted from Net Interest Expense only when appropriate in the context of the regulatory financial model. In the UK, for example, the regulatory regime provides a real rate of return so revenues and the regulatory asset base are adjusted for inflation and Moody's excludes the indexation element of index-linked debt in calculating the Net Interest Expense. The indexation is however captured by the leverage ratio as it increases the outstanding debt amount.

The regulatory Capital Charges represent the portion of revenues (and thus FFO) that is not available to cover a utility's debt service because it needs to be allocated to the replenishment of the asset base. The

See Moody's Rating Methodology: "Moody's Approach to Global Standard Adjustments in the Analysis of Financial Statements for Non-Financial Corporations - Part II Standardized Adjustments to Enable Global Consistency for Issuers Reporting under International Financial Reporting Standards ('IFRS')", February 2006, and Rating Methodology: "Moody's Approach to Global Standard Adjustments in the Analysis of Financial Statements for Non-Financial Corporations - Part I Standardized Adjustments to Enable Global Consistency for US and Canadian GAAP Issuers", February 2006.

For further details, please see Moody's Special Comment: "UK Water Sector: Key Ratios Used by Moody's in Assessing Companies' Credit Strength", March 2006.

For example water companies in the UK historically had fairly negligible working capital movements due to (i) the changes in the water charges (K-factor) being small or negative resulting in limited turnover growth, and (ii) small debtor balances at the year-end as the domestic customer base was largely billed in advance on the basis of unmeasured supplies However, as customers switch from unmeasured to measured supply payment patterns may change. Measured water supplies are invoiced every six months in arrears, with the billing date being a function of the date when the meter is installed. Consequently, the effect of customers switching to measured supplies is a significant delay in the receipt of payments for the same supply (i.e. from up to 12 months in advance to up to 8-9 months in arrears). These dynamics lead to additional cash requirements and an increase in the working capital (debtors) of the water companies (i.e. negative cash movement). However, this negative effect on working capital is normally expected to reverse once measured customers start to pay their bills via direct debit.

maintenance of a stable asset base will ensure that the earned return does not fall due to a decline in the asset base. Depending on the regulatory financial model (for example, whether it is based on statutory historic cost financial statements or regulatory current cost financial statements), Capital Charges could correspond to regulatory depreciation, ¹³ accounting depreciation, maintenance expenditure or an equivalent concept.

(b) Net Debt to Regulated Asset Base (or Fixed Assets) OR Debt to Capitalisation

For regulated water utilities we measure leverage as Net Debt to Regulated Asset Base (or Fixed Assets, if applicable), reflecting a loan-to-value ratio. The denominator for this ratio can be the Regulated Asset Base or similar concept, if regulatory financial statements are used for the analysis, or it can be total Fixed Assets, if statutory financial statements are used. Fixed Assets would include tangible and intangible assets, but not Goodwill, given that companies would usually only earn a return on the actual water and wastewater assets. This ratio is designed to measure the leverage as a proportion to the capital invested, on which the company is allowed to earn a return. As such the Regulated Asset Base also resembles the net present value of the future cash flow earnings potential of a water utility.

We use Net Debt given the sector's propensity to pre-fund the significant capital investments which can result in substantial cash amounts held on balance sheet and also recognising the requirements under certain financing structures to maintain liquidity and debt service reserves.

Rating committees may also consider the ratio of Total Debt to Total Capitalisation, as an alternative measure of the issuer's leverage relative to is total capital base.

(c) FFO to Net Debt

This ratio is one of Moody's most commonly used measures of dynamic leverage. We note that this measure does not take into account the need of maintenance investments when comparing cash flows to future debt repayments. However, it also allows a wider comparison across industries on a global basis and can be a useful indicator of a company's ability to generate cash flows if monitored over a period of time.

The numerator for this ratio is FFO as defined above. Again, we use Net Debt for the calculation of this ratio. However, in situations where our assumptions on pre-funding may prove incorrect or the cash reported on the balance sheet is restricted for a specific purpose and unavailable to service the debt, Gross Debt may be applied. Discretion is given to the analyst and to the rating committee to consider Gross Debt instead of Net Debt. For example, for issuers that are near speculative or speculative grade, Net Debt may not be used to calculate this metrics, as the cash on the issuer's balance sheet may be used for collateral postings. Furthermore, where the debt position of a company may be overstated or understated by the debt figures as reported in the financial statements, we would also make the appropriate adjustments.¹⁴

(d) RCF to Capex

This ratio shows the extent to which a water utility is able to fund capital expenditure internally. Moody's does not regard capital expenditure undertaken by a utility to upgrade its network as a negative rating factor in itself, as additional investments may be remunerated through tariff increases. However, we view positively the financial flexibility enjoyed by a utility with limited capex requirements easily funded by internally generated cash flows. Such a company would not need to access the markets to raise additional finance and may have a wider range of options to react to changing economic circumstances.

However, we would also caution that a company that generates large financial surpluses that are paid out to shareholders may not actually retain a high degree of flexibility in downturns if management is unwilling to cut distributions. Thus this ratio takes into account the magnitude of dividend payments.

The formula for the RCF to Capex ratio is the following:

For example, under the UK regulatory regime, the regulatory capital charges are Infrastructure Renewals Charge (IRC) and Current Cost Depreciation (CCD). Both IRC and CCD form part of the allowed revenue that the regulator determines, and are thus an integral part of companies' cash flows. The IRC represents the cost of maintaining underground assets at a constant level of functionality and as such is based on an average of infrastructure renewals expenditure calculated by the regulator Ofwat over a period of 15 years. The CCD relates to above-ground assets with a limited life and is, in principle, calculated in line with accounting depreciation criteria. However, for the majority of CCD that relates to the original assets transferred at privatisation and thus acquired with a large discount to the asset replacement value, the standard accounting approach cannot be applied and CCD is calculated with reference to the current replacement cost. Ofwat follows the principle that over the long term (approximately 28 years), for a pool of assets which is stable in terms of outputs generated, the CCD charged should be comparable to the capital expenditure required to maintain and replace the assets.

¹⁴ The most common instances where the need for this type of debt adjustments may arise are linked to derivative transactions.

FFO – Dividends Paid Capex

Capex comprises additions to both tangible and intangible fixed assets, but will be net of any government grants, subsidies or developers' contributions received for the purpose of calculating this ratio. We use Capex net of subsidies when scoring this sub-factor, as it is meant to address the financing risk related to the investment programme, which only refers to the portion that needs to be funded by the company.

Other metrics that are considered in rating committees include Debt to Capitalisation, which as mentioned above can be used as a proxy for the sub-factor ratio described in 4(b). To assess the impact of the level of dividend payments on a company's financial profile, Moody's may also consider RCF to (Net) Debt or dividend payout ratios.

ASSUMPTIONS FOR FINANCIAL RATIO CALCULATIONS

Given that the economic model of the water and wastewater industry generally offers good medium-term visibility, financial projections typically provide a useful tool to enhance credit analysis. In mapping a company's credit metrics to broad rating categories as indicated in the grid below, we could focus exclusively on historical credit metrics or exclusively on projected metrics, or use a mixture of both. In fact, we use historic credit metrics in situations where we believe that these are representative of the financial structure pursued by management (based on a track record), or where we believe that forecast improvements are uncertain. For companies that have a history of using financial headroom to make new investments or to increase distributions to shareholders, we map using historic credit metrics, without factoring in the benefit of any reduction in leverage and associated improvement in credit metrics that may be shown in the financial projections based on current operations. Conversely, in cases where we believe that there is a high probability that a company's credit metrics will improve or deteriorate, we map using the prospective ratios.

For the purpose of this report, we have generally used a three-year average of the latest historical information. However, if updated information is publicly available, e.g. in relation to potential changes in a company's capital structure as has been the case for Veolia Water Central Limited (formerly Three Valleys Water Plc), we have already reflected this in the scoring for the credit metrics. Furthermore, for water utilities funded under a highly leveraged capital structure, as is the case for a number of the UK issuers, which form the largest group of rated issuers, we have taken into account certain cash-trapping financial covenants when assessing the utilities' positioning, particularly with respect to the Adjusted Interest Coverage and the Net Debt to Regulated Asset Base.

RATING GRID MAPPING

The following table shows the full mapping of each sub-factor to a broad rating category and the weighting of each sub-factor within Rating Factor #4.

Rating Category	Aaa	Aa	A	Ваа	Ba .		Caa	Weighting
(a) Adjusted Interest Cover OR FFO Interest Cover	>8.0x OR >10.0x	4.5-8.0x OR 7.0-10.0x	2.5-4.5x OR 4.5-7.0x	1.5-2.5x OR 2.5-4.5x	1.2-1.5x OR 1.8-2.5x	1.0-1.2x OR 1.5-1.8x	<1.0x OR <1.5x	15.00%
(b) Net Debt / Regulated Asset Base (or Fixed Assets) OR Debt/Cap	<25%	25-40%	40-55%	55-70%	70-85%	85-100%	>100%	15.00%
(c) FFO / Net Debt	>40%	25-40%	15-25%	10-15%	6-10%	4-6%	<4%	5.00%
(d) RCF / Capex	>3.5x	3.5-2.5x	1.5-2.5x	1.0-1.5x	0.5-1.0x	0.25-0.5x	<0.25x	5.00%

Structural Considerations and Sources of Rating Uplift from Creditor Protection

Regulated water utilities are financed under different financing structures. In particular, large regulated water utilities are becoming more highly leveraged as a result of changes in ownership and other corporate activity and may have to agree to creditor protection arrangements. Such arrangements are most common in the UK. A transition from a publicly listed model to private ownership by infrastructure, pension and other specialist funds has led to the adoption of financing structures that incorporate structural enhancements, which are often seen in project finance transactions in various infrastructure sectors.

Moody's believes that in the water sector structural enhancements may provide valuable creditor protection and be a source of rating uplift. We have classified the sources of rating uplift from creditor protection into three categories:

- Event risk protection
- Debt structure and liquidity protection
- Control afforded to creditors

For each category, we look at specific concessions made to creditors and score their effectiveness on a scale of five grades: "none", "low, "medium", "high" and "very high".

Legal considerations are typically important to determine the value of protective arrangements in the jurisdiction(s) that are relevant to a toll road operator's specific financial arrangements.

(i) Event Risk Protection

In this category, we typically review restrictive covenants including:

- Restrictions on permitted business outside the core water and wastewater activities
- Restrictions on acquisitions/disposals
- Restrictions on investments
- Restrictions on additional indebtedness

As we have discussed above, if these and similar restrictions are effective to remove event risk, the subfactors under Rating Factor #3: Stability of Business Model & Financial Structure for Creditors will be scored higher (between Aaa and A), thus effectively giving some rating uplift compared to a generic benchmark assumed to be in the mid-point Baa range.

Moody's notes that certain funding arrangements may incorporate structural features designed to insulate the credit quality of the water utility from that of its wider corporate family, sponsors or sub-contractors. These features may be crucial for the rating of a regulated water utility to reflect exclusively its credit quality. assessed as described in this rating methodology. However, they do not enhance the water utility's standalone credit quality and therefore are not listed as a source of rating uplift.

(ii) Debt Structure and Liquidity Protection

Structural enhancements in this category address financial risks associated with liquidity, interest rate and refinancing risk. Typical arrangements include:

- Dedicated cash reserves to cover all costs for at least next 12 months under base case
- Timing reserves to cover future "lumpy" payments (e.g. maintenance)
- No material refinancing risk (e.g. benefits of amortising debt or restrictions on debt concentration)
- Covenanted hedging policies

The different arrangements may have more or less bearing in our assessment of how effective creditor protection in this category is, depending on the specific circumstances of the company. If we regard the overall

effectiveness of creditor protection for risks relating to debt structure and liquidity as very high, the rating would be raised by one notch.

We highlight that a fully amortising debt structure, typical of project financings and typically associated with adequate reserving and hedging arrangements, is generally regarded as necessary to achieve a score of "very high" in this category. However, we consider it very unlikely for a utility to adopt an amortising debt structure, given the ongoing capital investment programmes, which usually require constant additional funding. Refinancing risk thus tends to be a constant feature of regulated water utilities' financing structures.

(iii) Control Afforded to Creditors

Among the most typical structural features, financial covenants and security arrangements are included in this category, as they provide creditors with a degree of control over a company's financial and business decisions in downturns, which are not enjoyed in respect of a typical corporate issuer. Specific arrangements that we classify in this category include:

- Step-in rights and remedies to delay concession termination or insolvency (e.g. direct agreements, security and intercreditor agreements, warning system).
- Restrictions on payments and distribution lock-ups (e.g. if metrics deteriorate below minimum required parameters).
- Frequent and regular reports of creditors' technical advisers to sanction base case validity and compliance with contractual and financial obligations.

Again, if the overall effectiveness of arrangements in this category is scored as very high, a one-notch rating uplift is applied. As for the previous category, the whole package of structural enhancements is assessed to gauge the overall effectiveness. For example, independent validation of compliance with financial ratio covenants may be an important consideration for the purpose of assessing the effectiveness of such covenants. ¹⁵ Creditor step-in rights should be specifically permitted under the regulatory, licence or concession frameworks as well as the finance documents.

We give value to security arrangements – typically in respect of the shares in the regulated water company – only as one element, although generally a critical element, of a wider package of concessions designed to improve creditors' ability to detect early potential problems and rectify them if possible (in the first instance by retaining cash surpluses within the company), or, if remedial action is not possible or fails, to maximise recovery prospects. As normally security is not allowed or is not enforceable on the regulated or concession assets, a rating uplift is not generally achievable simply by the granting of security.

In conclusion, Moody's believes that structural enhancements can deliver up to three notches of uplift to the rating if they are very comprehensive and effective. In the regulated water utilities universe, actual rating uplift tends to range between one and two notches.

Rating Methodology Assumptions and Limitations, and other Rating Considerations

The rating methodology grid incorporates a trade-off between simplicity that enhances transparency and greater complexity that would enable the grid to map more closely to actual ratings. The four rating factors in the grid do not constitute an exhaustive treatment of all considerations that are important for ratings of companies in the regulated water and wastewater sector. In addition, our ratings incorporate expectations for future performance, while the financial information that is used to illustrate the mapping in the grid is mainly historical. In some cases, our expectations for future performance may be informed by confidential information that we cannot publish. In other cases, we estimate future results based upon past performance, industry trends, competitor actions and other factors. In either case, predicting the future is subject to the risk of substantial inaccuracy.

A test to assess the effectiveness of financial covenants, in terms of definition and threshold levels, that we often use is to run increasingly negative downside sensitivities and see (i) whether and when distribution lock-ups are activated, and (ii) whether trapped cash provides material support to the company's credit metrics at meaningful levels.

Although the rating factors described in this methodology cover the principal drivers of our rating analysis, the analytical process also includes a number of important considerations that are consistently examined for fundamental issuers in general. Such factors include liquidity, notching practices for debt subordination, management quality and corporate governance, legal and environmental matters, financial reporting and overall disclosure, as well as the extent of likely government support. These matters are dealt with by Moody's in the form of overriding rating methodologies and practices that are applied in accordance with general credit policy guidelines. In situations where a water utility's rating is materially influenced by any such factor so as to diverge from the rating resulting from the application of Moody's industry methodology, we explain the relevant rating factors in company-specific research.

Regional Differences

UK

Moody's currently rates nine of the ten water and sewerage companies (WaSCs) operating in England and Wales as well as four of the eleven water only companies (WoCs). The WoCs are generally smaller in size and provide only water services within the overall franchise area of the larger WaSCs, which also undertake sewerage services.

The average rating of the UK water sector based on the credit quality of the relevant corporate family is around A3-Baa1, with most of the debt rated at A3. This reflects regulatory constraints that may restrict the ability of companies to position themselves lower in the rating scale, but also the industry's fundamental characteristics.

Overall, Moody's regards the risk profile of the UK regulated water utilities as one of the lowest amongst all industry sectors rated. In particular, we consider the UK regulatory framework as one of the most transparent and well-established, thus determining the high predictability of cash flows for the sector.

Based on the low business risk characteristics that are inherent in the generally monopolistic water sector as a whole, but are further enhanced through the strong regulatory framework applied in England and Wales, the UK water companies can sustain a relatively high level of leverage and maintain an investment-grade profile.

The UK water sector has recently completed the regulatory review process to determine prices for the five-year period 2010-15. The final price determination, published in November 2009, includes challenging assumptions for the UK water companies. Whilst we believe that the price review is overall neutral for credit ratings in the sector, we expect that shareholder returns will decline. Dividend policies that do not reflect the realities of both the new price limits and the size of each company's capital investment programme may lead to downward rating pressure for individual companies.

Over the long term, the sector may face challenges from the possible introduction of competition to certain elements of the value chain. Several recommendations have been made, including the vertical separation of the activities of the companies and proposals for developing upstream competition. Moody's does not believe that the proposed changes will adversely affect the business risk profiles of the water companies over the medium term. Furthermore, we expect that certain segments of the industry, such as the infrastructure networks, will retain natural monopoly characteristics over the very long term.

Rest of Western Europe

Unlike in the UK, water services in the rest of Western Europe remain largely in public hands. In particular, the water and wastewater infrastructure usually remains in the ownership of local or regional governments. The assets and/or their operations could be transferred to a government-related corporate entity, as is the case for Acquedotto Pugliese S.p.A., a regional water utility that is owned by the regional government of the Italian region of Puglia where the company operates. However, very few of these entities have accessed the debt capital markets to date.

In a number of cases, local or regional governments have outsourced the operations of their water and wastewater infrastructure to the private sector, mainly through short-term management contracts, e.g. in France. However, such pure asset operators are outside of the scope of this methodology. For example, major water contractors, such as Suez Environnement or Veolia Environnement are not covered in this methodology, given that their credit profile is subject to different assumptions due to the competitive element of their operations.

On the other hand, the methodology captures AGBAR of Spain, whose activities combine the operation of assets under short-to-medium-term contracts with long-term concessions and licensed operations.

Central and Eastern Europe - Example: Slovakia

Although Moody's views favourably the historically strong balance sheet structure and strong cash flow generation of water companies in Slovakia, our rating assessment includes a forward looking assumption of increasing leverage and consequent weakening of credit metrics due to anticipated sizable investment expenditures necessary to comply with EU directives. For example, the European Water Framework Directive 2000/60/EC stipulates that all towns or villages of 2,000 or more citizens will need to have sewage system coverage by 2015. Although these EU requirements represent an obligation of the Slovak Republic. designated government support or EU funding for water companies has not yet been specifically defined. Moody's notes that fulfilling these requirements will require significant investments, thereby increasing the risk of deterioration in the companies' financial profiles. Unless the future capital investment needs are partially accommodated by state or EU funds or supported by a more benign regulatory regime, the companies (including BVS) would need to raise significant external debt. Moody's views the companies' current debt capacity as sufficient to absorb such debt, but cautions that the level of the debt capacity might be significantly constrained in case the pressure to maintain low water and sewage tariffs further escalates, preventing companies from preserving their financial profiles.

United States

In the US, there are federal guidelines related to water quality but utilities are also subject to regulation at the state level for quality, service, and, importantly, rate-setting. Moody's views each state individually and considers the various factors that affect the utilities profitability including, the type of fixed-versus variable-rate design allowed, historically authorised ROEs, and the existence of riders or other mechanism's that permit recovery of operating and capital costs outside of a general rate case. Additionally, we analyse the strength of any regulatory ring-fencing provisions that could limit the level of financial leverage the utility can operate at or restrictions on upstream dividends to parent companies or shareholders.

Latin America – Example: Brazil

Ratings for Brazilian water utilities are constrained by the lack of a consolidated regulatory framework to ensure stable and predictable levels of income and cash flows supportive of its capital-intensive activities. Water and wastewater services in Brazil are subject to several laws at federal, state and municipal levels. In general, the companies operate at the state or municipal level, pursuant to long-term concession agreements with the various municipalities, which own the underlying concession assets. Concession contracts often lack provisions for tariff adjustments, so rates are set by the state government, leaving ample room for politically driven decisions. Such political interference has been a primary factor driving deterioration in operating margins in the sector. The concession contracts often have written provision clauses that entitle the company for the recovery of the assets' residual value at termination; however, because the municipalities lack sufficient financial resources to fund investments or to reimburse past investments themselves, the terminated concessions tend to be renewed.

Conclusion: Summary of the Grid-Indicated Rating **Outcomes**

For the 23 regulated water companies scored in detail under the methodology (excluding Severn Trent Plc and United Utilities Plc as pure holding companies; as well as Korea Water Resources Corp.), the methodology grid-indicated ratings map to current assigned ratings (or BCAs where relevant) as follows (please see Appendix II for further details):

- 52% or 12 companies map to their assigned rating (or BCA where relevant)
- 44% or 10 companies have grid-indicated ratings that are within one alpha-numeric notches of their assigned ratings (or BCAs where relevant)
- 4% or 1 company has grid-indicated ratings that are within two alpha-numeric notches of their assigned ratings (or BCAs where relevant)

Overall, all of the grid-indicated rating outcomes are within two alpha-numeric notches of their assigned ratings (or BCAs where relevant) and 96% of the grid-indicated ratings are within one alpha-numeric notch of their assigned ratings (or BCAs where relevant). We note that some of the multi-notch differentials relate to issuers, whose ratings are notched for structural subordination, which is not reflected in the rating methodology grid.

Appendix I – Regulated Water Utilities Rating Grid

Pating For	Aaa ctor 1 – Regu	Aa Aa	onment 9. Ac	set Owners	Ba A	.	Caa	Weight
(a) Stability and Predictability of Regulatory Environment	Regulation is independent, well established (>15 years of being predictable and stable) and transparent (published methodologies clearly define risk allocation between companies and customers and are consistently applied, with public or shared financial model)	Regulation is independent, reasonably well established (>10 years of being predictable and stable) and transparent (published methodologies clearly define risk allocation between companies and customers and are generally consistently applied) Regulatory framework has been mostly predictable and stable in recent years and is supportive of utilities	Regulation is generally independent and developed (published methodologies set out principles of risk allocation between companies and customers and are based on established precedents in the same jurisdiction); and has above average predictability and reliability, although regulatory regime may be sometimes less supportive of utilities Utility regulatory body may be a state commission or national, state, provincial or independent regulator	Regulatory framework is well developed, with evidence of some inconsistency or unpredictability in the framework's application OR Regulatory framework is relatively new and untested, but methodologies are based on established precedents and jurisdiction has history of independent and transparent regulation for other utility services Regulatory Environment may sometimes be challenging or politically charged	Regulatory framework is defined but there is a high degree of inconsistency or unpredictabilit y in its application; tariff setting is subject to negotiation and political interference; there has been a history of difficult or less supportive regulatory decisions; some precedents in the country of predictable regulation for other utility services	Regulatory framework is unclear, untested or undergoing significant change, with a history of political interference Utility regulatory body lacks a consistent track record and appears unsupportive, uncertain or highly unpredictable	Regulatory framework is not defined, unpredictable or politically driven	15.00%
(b) Asset Ownership Model	All key water and/or sewerage assets held outright in perpetuity	All key water and/or sewerage assets held outright under licence which can be terminated for underperforma nce, failure to meet certain financial parameters or insolvency OR held under long-term concession with clearly defined right to timely recovery of	All key water and/or sewerage assets held under long-term concession with clearly defined right to recover value of residual assets at termination/end of concession underpinned by highly rated entity but with undefined timeframe OR held under	All key water and/or sewerage assets held under long-term concession with entitlement to recover value of residual assets at termination/en d of concession but procedures untested/unde fined OR held under medium-/ long-term operating	All key water and/or sewerage assets held under concession with recovery of residual asset value at termination/end of concession subject to negotiation OR held under short-term operating leases or mgmt contract with good degree of portfolio diversification	All key water and/or sewerage assets held under concession with no recovery of residual asset value at termination/end of concession OR held under short-term operating leases or mgmt contract (limited portfolio diversification)	Issuer is in default under its licence, concession or lease/contrac, likely to lead to termination Expropriation highly likely, no prospect of compensation	10.00%

Rating Calegory	Ass	value at termination/en d of concession underpinned by highly rated entity; clear track record of consistently applying concession termination / recovery regime	leases or mgmt contract with very substantial	Bail contract with substantial portfolio diversification, established market position and high renewal rate (>90%)	rate (>80%) Expropriation possible, but some prospect of compensation	likely, little or no prospect of compensation	Gaa	Weightin
(c) Cost and Investment Recovery (Ability & Timeliness)	No regulatory or contractual impediment to adjust tariffs (no approval or reviews required)	Tariff formula allows for timely recovery of operating expenditure including depreciation and a fair return on all investment Depreciation allowance fairly reflects asset consumption	(>95%) Tariff formula allows for recovery of operating expenditure including depreciation based on allowances set at frequent price reviews (5-yearly intervals or shorter) and a fair return on all efficient investment	Tariff formula allows for recovery of operating expenditure including depreciation and return on investment but subject to retrospective regulatory approval or infrequent price reviews (> 5-yearly intervals)	Tariff formula does not take into account all cost components and depreciation is set below asset consumption Revenues allow coverage of most operating expenditure But investment is not clearly	Tariff formula does not take into account all cost components and depreciation is set below asset consumption Revenues only cover cash operating expenditure OR	Revenues only partially cover cash operating costs	12.00%
		All capital expenditure is included in asset base as incurred or fully covered by specific riders/surcharg es prior to the next rate case Minimal challenges by regulators to companies' cost assumptions	Depreciation allowance fairly reflects asset consumption Capital expenditure is included in asset base as incurred or partially covered by specific riders/surcharg es prior to the next rate case Opex and capex can be subject to efficiency tests	reviews and cost recovery outcomes are usually predictable, although application of	or fairly remunerated OR Rate/tariff reviews are inconsistent, with some history of unwillingness to make timely rate changes	Highly uncertain rate reviews and cost recovery outcomes; regulators may engage in second guessing or spending decisions or deny rate increases to fund ongoing operations		
		And the second s	Limited instances of regulatory challenges; limited delays to rate or tariff increases or cost recovery	tariff formula may be unclear; potentially greater tendency for regulatory intervention and/or to disallow or delay costs				

Category	Ang	Aa 🦠	A	Вае	Bay (B	Caa	Vergi
(d) Revenue Risk	No exposure to volume or customer concentration risk	Little exposure to volume risk and/or timely recovery mechanism Little concentration of volumes and revenues to one particular customer	Some exposure to volume risk but recovery mechanism with some delay through regulatory price review; generally limited volatility expected Some concentration of volumes and revenues to one particular customer	Moderate exposure to volume risk but recovery mechanism with some delay through regulatory price review; moderate volatility expected AND/OR Moderate concentration of volumes and revenues to one particular customer and/or industry sector	Significant exposure to volume risk but recovery mechanism, which may not follow regular intervals; significant volatility expected OR Significant concentration of volumes and revenues to one particular customer and/or industry sector	High exposure to volume risk with no clear recovery mechanism OR High concentration of volumes and revenues to one particular customer and/or industry sector	Very high exposure to volume risk with no existing recovery mechanism OR Very high concentration of volumes and revenues to one particular customer and/or industry sector	3.00%
Rating Fac	tor 2 – Oper	ational Char	acteristics &	-				
a) Operational Efficiency	Consistently achieves maximum results on all relevant performance measures (both cost efficiency and service levels)	Track record of very high performance (consistently at the efficiency frontier and in the top 10% on relevant key performance measures)	Consistent track record of outperforming regulatory opex and capex targets; above national average on relevant key performance measures	Performance in line with national average; no history of material opex and/or capex overruns	Some history of material opex and/or capex overruns; below national average on relevant key performance measures	Currently experiencing serious capex and/or opex overruns; poor track record on relevant key performance measures	Very serious cost overruns or service failures could put issuer in default under its licence, concession or lease/contract	5.00%
b) Scale and Complexity of Capital Programme & Asset Condition Risk	Annual total capital expenditure (maintenance & enhancement) ≤ 4% of total fixed assets or regulated asset base AND/OR No asset condition risk (i.e. full and immediate cost passthrough)	Annual total capital expenditure (maintenance & enhancement) > 4% ≤ 6% of total fixed assets or regulated asset base AND/OR Well-developed asset base under tight regulatory supervision; asset performance is generally stable or improving	Annual total capital expenditure (maintenance & enhancement) > 6% ≤ 8% of total fixed assets or regulated asset base AND/OR Well-developed asset base and no history of serious asset failure; asset performance is generally stable or improving	Annual total capital expenditure (maintenance & enhancement) > 8% ≤ 12% of total fixed assets or regulated asset base AND/OR Company has a reasonably developed asset base; may have some precedents of serious asset failures but asset performance is now broadly stable	Annual total capital expenditure (maintenance & enhancement) > 12% ≤ 20% of total fixed assets or regulated asset base OR Small number of large and complex projects accounts for majority of capital programme AND/OR Asset base not fully developed; average asset performance is gradually deteriorating or there is some uncertainty about asset	Annual total capital expenditure (maintenance & enhancement) > 20% ≤ 30% of total fixed assets or regulated asset base OR One large and complex project accounts for majority of capital programme AND/OR Performance of most assets is materially deteriorating, with serious assets failures likely or ongoing	Annual total capital expenditure (maintenance & enhancement) > 30% of total fixed assets or regulated asset base OR Capital programme includes one or more large projects of extreme technical complexity AND/OR Rapidly deteriorating asset performance or condition could put issuer in default under licence, concession or lease/contract likely to lead	5.00%

Category	Aaa	ility of Busine	ace Model 9.	Baa g	Ba	i.	Car	Veldi
(a) Ability and Willingness to Pursue Opportunistic Corporate Activity (M&A, Disposals & Investments)	Covenants prohibit all corporate activity OR Corporate activity is outside of management mandate	Covenants or licence/conces sion largely limit corporate activity, with exception of certain defined permitted investments	Strong track record of no material corporate activity and stated intention to refrain from M&A and major investments	Moderate, may impact credit metrics for 18- 24 months only	Track record of repetitive, sizeable transactions	Highly likely to and very large investments	conduct frequent opportunistic	3.33%
(b) Ability and Willingness to Increase Leverage	No additional indebtedness allowed without debt holders' consent	Additional indebtedess only allowed for capex under debt covenants and/or licence/conces sion terms	Financial covenants in principal debt instruments limit management ability to materially increase leverage	Conservative financial strategy, unlikely to compromise minimum financial parameters	Limited track record of consistent financial policies; tikely to target high leverage	leverage; likel	ies and very high y to pay out ncial cushion ahead	3.33%
(c) Targeted Proportion of Operating Profit outside Core Water and Wastewater Activities	0% (=exclusive focus on core water and wastewater services) OR Covenants prohibit all other businesses	0-5% OR Covenants largely limit non-concession businesses, with exception of certain defined and low risk permitted businesses	5-10%	10-15%	15-20%	>20%		3.33%
		edit Metric		1.5-2.5x	1.2-1.5x	1.0-1.2x	.4.0.	4E 00%
(a) Adjusted Interest Cover	>8.0x	4.5-8.0x	2.5-4.5x				<1.0x	15.00%
OR FFO Interest Cover	OR >10.0x	OR 7.0-10.0x	OR 4.5-7.0x	OR 2.5-4.5x	OR 1.8-2.5x	OR 1.5-1.8x	OR <1.5x	
(b) Net Debt / Regulated Asset Base (or Fixed Assets) OR Debt/Cap	<25%	25-40%	40-55%	55-70%	70-85%	85-100%	>100%	15.00%
(c) FFO / Net Debt	>40%	25-40%	15-25%	10-15%	6-10%	4-6%	<4%	5.00%
		3.5-2.5x	1.5-2.5x	1.0-1.5x	0.5-1.0x	0.25-0.5x	<0.25x	5.00%

Global Regulated Water Utilities Rating Methodology

Appendix II - Indicated Ratings and Results of Mapping

An issuer may score higher or lower for any given factor or sub-factor than its actual or indicated rating implies. This is not in itself a concern, but rather owned regulated water utilities to utilise their debt service capacity and leverage on their strong business fundamentals to improve shareholder returns. reflects the relative strength and weaknesses of each individual issuer in relation to each of the sub-factors. Indeed, there is a propensity for privately-Therefore, it would not be uncommon to see issuers scoring high for fundamental business risk factors and relatively low on the key credit metrics, to achieve a rating comfortably in the investment-grade category, i.e. around low single-A to high-Baa. On the other hand, issuers in less developed markets may exhibit the reverse as a strong financial profile is required to offset the relative weakness of less transparent and established regulatory regimes.

The full results of the rating mapping and indicated ratings is summarised below. Certain UK issuers, which have been funded under a more structured approach, including credit-enhancing features, receive additional rating uplift, as shown below.

After the main summary table, we discuss individual mappings and outliers for each of the key rating factors separately.

Sub-Factor Weights				-	15.0%	10.0%	Factor 1.	3.0%	Fac. 5.0%	Factor 2 0% 5.0%	3.3%	Factor 3	3.3%	15.0%	15.0% 5.0%	5.0%	2.0%
	Rating	Factor Indicated Rating	Uplift	Final Indicated Rating	Stability and Predictab ility of Regula- tory Environ- ment	Asset Owner- ship Model	Cost and Invest- ment Recovery	Revenue	Opera- tional Effi- ciency	Scale and Comple- xity of Capital Program me th Asset Condition Risk	Ability and willing- ness to Pursue Opportun istic Corporat e Activity	Ability and Willing- ness to Increase Leverage	Targeted Proportion of Operating Operating Outside Core Water and Waster water water	Adjusted Interest Cover (or FFO Interest Cover)	Net Debt/ RAB (or Debt/ Cap)	FFO/ Debt	RCF/
Europe Acquedotto Pugliese S.p.A.	Baa3	Ba3	0	Ba3	Ba	Baa	Baa	Aa	Ba	Caa	٨	<	Aa	Ва	В	Ba	Caa
Bratislavska vodarenska spolocnost, a.s.	Baa2 [11]	Baa3	0	Baa3	æ	Aa	Ф	Ва	Ba	Ba	٨	Ba	Aa	Aaa	Aaa	Aaa	Ba
Sociedad General de Aguas de Barcelona, S.A. (AGBAR)	4 2	A3	0	¥3	٨	٨	Aa	4	∢	Baa	Baa	Baa	æ	∢	∢	Aa	Ва
Anglian Water Services Limited	Baa1	Baa2	+	Baa1	Aaa	Aa	4	۷	Baa	∢	Aa	4	Aa	Ва	Ba	Ba	Ba
Dwr Cymru Cyfyngedig	A3	Baa1	0	Baa1	Aaa	Aa	∢	∢	Baa	4	Aa	∢	Aa	Baa	Ba	Baa	Ba
Northumbrian Water Limited	Baa1	Baa1	0	Baa1	Aaa	Aa	۷	۷	Baa	Baa	∢	Baa	Aa	Baa	Ba	Baa	Ba
Severn Trent Water Limited	A3	A3	0	A3	Aaa	Aa	∢	٨	Baa	۷	∢	Baa	Aa	Baa	Baa	4	Ba
Southern Water Services Limited	Baa1	Baa2	Ŧ	Baa1	Aaa	Aa	٨	∢	Baa	Baa	Aa	۷	Aa	Ва	Ва	Baa	Ba
Thames Water Utilities Limited	Baa1	Baa2	7	Baa1	Aaa	Aa	∢	A	Baa	Ba	Aa	∢	Aa	Ba	Ва	A	æ
United Utilities Water PIc	A3	A3	0	A3	Aaa	Aa	∢	∢	Baa	Baa	∢	Baa	Aa	Baa	Baa	A	Ba

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Global Regulated Water Utilities

Rating Methodology

Sub-Factor Weights					15.0%	Factor 1	12.0%	3.0%	Factor 2 5.0% 5.0%	5.0%	3.3%	Factor 3	3.3%	15.0%	Factor 4	5.0%	5.0%
	Rating	Factor Indicated Rating	Uplift	Final Indicated Rating	Stability and Predictab ility of Regula- tory ment	Asset Owner- ship Model	Cost and Invest- ment Recovery	Revenue	Opera- tional Effi- ciency	Scale and Comple- xity of Capital Program me & Asset Condition Risk	Ability and Willing- ness to Pursue Opportun istic Corporat	Ability and Willing- ness to Increase Leverage	Targeted Proportion of Operating Ooperating Profit Outside Core Water Waster waster water Activities	Adjusted Interest Cover (or FFO Interest Cover)	Net Debt/ RAB (or Debt/ Cap)	FFO/ Debt	RCF/ Capex
Wessex Water Services Limited	A3	A3	0	A3	Aaa	Aa	4	∢	Baa	Baa	¥	Baa	Aa	Baa	Baa	Baa	Ba
Yorkshire Water Services Limited	Baa1	Baa1	7	A3	Aaa	Aa	4	∢	۷	4	Aa	∢	Aa	Ba	Ва	Baa	Ba
South East Water Limited	Baa2	Baa2	0	Baa2	Aaa	Aa	∢	4	Baa	Baa	Aa	∢	Aa	Ba	Ва	Ba	Ba
South Staffordshire Water PIc	Baa2	Baa2	0	Baa2	Aaa	Aa	∢	4	4	Ba	Aa	∢	Aa	Ba	Ba	∢	Ba
Sutton & East Surrey Water PIc	Baa1	Baa2	+	Baa1	Aaa	Aa	4	Baa	Baa	Ba	Aa	4	Aa	Ba	Ba	4	Ва
Veolia Water Central Ltd (formerly Three Valleys Water)	A3	Baa1	0	Baa1	Aaa	Aa	∢	∢	Baa	Ba	∢	Baa	Aa	Ba	Baa	∢	Ba
North America American Waterworks Company, Inc.	Baa2	Baa2	0	Baa2	Baa	∢	∢	Aa	Baa	Baa	Baa	Baa	Baa	Baa	Baa	Baa	Ba
New Jersey American Water	Baa1	A3	0	A3	4	Aa	⋖	A	Baa	Baa	٨	4	Aa	∢	⋖	⋖	Ва
Pennsylvania-American Water Company	Baa1	A3	0	A3	⋖	Aa	Aa	A	Ваа	Baa	٧	4	Aa	Baa	∢	⋖	Ва
Golden State Water Company	A2	A3	0	A3	∢	Aa	∢	<	Baa	Baa	٧	٧	Aa	Baa	∢	∢	Ва
Pennichuck Water Works, Inc.	Baa3	Baa1	0	Baa1	Baa	Aa	٨	Baa	Baa	Baa	٨	٨	Aa	Baa	∢	Baa	8
United Waterworks, Inc.	Baa1	Baa1	0	Baa1	Baa	٨	٧	۷	Baa	۷	Baa	Baa	Aa	Baa	∢	Baa	В
Latin America Companhia de Saneamento do Parana - SANEPAR	Ba3 [13]	Ba2	0	Ba2	8	Baa	B	Baa	Baa	Ba	Baa	Ba	Aa	Baa	٧	4	Ba

Rating Factor #1 - Results of Mapping

Factor 1 - Regulatory Environment and Asset Ownership Model

Sub-Factor Weights				15.00%	10.00%	12.00%	3.00%
Company	Current Rating	. Outlook	Final Indicated Rating	Stability and Predict- ability of Regulatory Environ- ment	Asset Ownership Model	Cost and Investment Recovery (Ability & Timeliness)	Revenue Risk
Europe							
Acquedotto Pugliese S.p.A.	Baa3 [12]	Negative	Ba3	Ba	Baa	Baa	Aa
Bratislavska vodarenska spolocnost, a.s.	Baa2 [11]	Stable	Baa3	В	Aa	В	Ba
Sociedad General de Aguas de Barcelona, S.A. (AGBAR)	A2	UR-D	А3	A	Α	Aa	Α
Anglian Water Services Limited	Baa1	Stable	Baa1	Aaa	Aa	Α	Α
Dwr Cymru Cyfyngedig	A3	Stable	Baa1	Aaa	Aa	Α	Α
Northumbrian Water Limited	Baa1	Stable	Baa1	Aaa	Aa	Α	Α
Severn Trent Water Limited	A3	Stable	A3	Aaa	Aa	Α	Α
Southern Water Services Limited	Baa1	Stable	Baa1	Aaa	Aa	Α	Α
Thames Water Utilities Limited	Baa1	Stable	Baa1	Aaa	Aa	Α	Α
United Utilities Water Plc	A3	Stable	A3	Aaa	Aa	Α	Α
Wessex Water Services Limited	A3	Stable	A3	Aaa	Aa	Α	Α
Yorkshire Water Services Limited	Baa1	Stable	A3	Aaa	Aa	Α	Α
South East Water Limited	Baa2	Stable	Baa2	Aaa	Aa	Α	Α
South Staffordshire Water Plc	Baa2	Stable	Baa2	Aaa	Aa	Α	Α
Sutton & East Surrey Water Plc	Baa1	Stable	Baa1	Aaa	Aa	Α	Baa
Veolia Water Central Ltd (formerly Three Valleys Water)	А3	Negative	Baa1	Aaa	Aa	Α	Α
North America							
American Waterworks Company, Inc.	Baa2	Stable	Baa2	Baa	Α	Α	Aa
New Jersey American Water	Baa1	Stable	A3	Α	Aa	Α	Α
Pennsylvania-American Water Company	Baa1	Stable	A3	Α	Aa	Aa	Α
Golden State Water Company	A2	Stable	A3	Α	Aa	Α	A
Pennichuck Water Works, Inc.	Baa3	Stable	Baa1	Baa	Aa	Α	Baa
United Waterworks, Inc.	Baa1	Negative	Baa1	Baa	Α	Α	Α
Latin America							
Companhia de Saneamento do Parana - SANEPAR	Ba3 [13]	Negative	Ba2	В	Baa	В	Baa

Positive Outlier Negative Outlier

Observations & outliers:

Given the fundamentally low business risk of the regulated water sector, it is not surprising that most issuers score strongly on this factor. Most notably are the UK water companies as positive outliers reflecting the transparent, stable and predictable nature of the regulatory framework applied, which is seen as benchmark for the global regulated water sector.

Rating Factor #2 - Results of Mapping

Factor 2 - Operational Characteristics & Asset Risk 5.00% 5.00% Sub-Factor Weights Capital Current Rating Company Europe Ba3 Acquedotto Pugliese S.p.A. Baa3 [12] Negative Ba Caa Bratislavska vodarenska spolocnost, a.s. Baa2 [11] Stable Baa3 Ba Ba Sociedad General de Aguas de Barcelona, S.A. (AGBAR) A2 UR-D A3 Baa Α Anglian Water Services Limited Baa1 Stable Baa1 Baa Α Stable Dwr Cymru Cyfyngedig A3 Baa1 Baa Α Northumbrian Water Limited Baa1 Stable Baa1 Baa Baa Severn Trent Water Limited A3 Stable A3 Baa A Southern Water Services Limited Stable Baa1 Baa Baa1 Baa Thames Water Utilities Limited Baa1 Stable Baa1 Baa Ba United Utilities Water Plc A3 Stable A3 Baa Baa A3 Wessex Water Services Limited A3 Stable Baa Baa Yorkshire Water Services Limited Baa1 Stable A3 Α Α South East Water Limited Baa2 Stable Baa2 Baa Baa South Staffordshire Water Plc Baa2 Stable Baa2 Α Ba Sutton & East Surrey Water Plc Stable Baa1 Baa Ba Baa1 Veolia Water Central Ltd (formerly Three Valleys A3 Negative Baa1 Baa Ba Water)

Baa2

Baa1

Baa1

A2

Baa3

Baa1

Ba3 [13]

Positive Outlier Negative Outlier

Latin America

North America

American Waterworks Company, Inc.

Pennsylvania-American Water Company

Companhia de Saneamento do Parana - SANEPAR

New Jersey American Water

Golden State Water Company

Pennichuck Water Works, Inc.

United Waterworks, Inc.

Observations & outliers:

There are a few negative outliers on the sub-factor that relates to the scale and complexity of the capital programme, reflecting comparably large investment programmes planned over the medium term.

Stable

Stable

Stable

Stable

Stable

Negative

Negative

Baa2

A3

A3

A3

Baa1

Baa1

Ba2

Baa

A

Ba

Rating Factor # 3 - Results of Mapping

Sub-Factor Weights				3.33%	3.33%	3.33%
Company	Current Reting	- Outlook	Final Indicated Rating	Ability and Willingness to Pursue Opportunist ic Corporate Activity (M&A, Disposals & Investments)	Ability and Willing- ness to increase Leverage	Targetee Proportic of Operatin Profit Outside Core Water ar Waster water Activitie
Europe	la and a land and the second				colombetor markusk	
Acquedotto Pugliese S.p.A.	Baa3 [12]	Negative	Ba3	Α	Α	Aa
Bratislavska vodarenska spolocnost, a.s.	Baa2 [11]	Stable	Baa3	A	Ba	Aa
Sociedad General de Aguas de Barcelona, S.A. (AGBAR)	A2	UR-D	A3	Baa	Baa	В
Anglian Water Services Limited	Baa1	Stable	Baa1	Aa	Α	Aa
Dwr Cymru Cyfyngedig	A3	Stable	Baa1	Aa	Α	Aa
Northumbrian Water Limited	Baa1	Stable	Baa1	Α	Baa	Aa
Severn Trent Water Limited	A3	Stable	A3	Α	Baa	Aa
Southern Water Services Limited	Baa1	Stable	Baa1	Aa	Α	Aa
Thames Water Utilities Limited	Baa1	Stable	Baa1	Aa	Α	Aa
United Utilities Water Plc	A3	Stable	A3	Α	Baa	Aa
Wessex Water Services Limited	A3	Stable	A3	Α	Baa	Aa
Yorkshire Water Services Limited	Baa1	Stable	A3	Aa	Α	Aa
South East Water Limited	Baa2	Stable	Baa2	Aa	Α	Aa
South Staffordshire Water Plc	Baa2	Stable	Baa2	Aa	Α	Aa
Sutton & East Surrey Water Plc	Baa1	Stable	Baa1	Aa	Α	Aa
Veolia Water Central Ltd (formerly Three Valleys Water)	A3	Negative	Baa1	Α	Baa	Aa
North America						
American Waterworks Company, Inc.	Baa2	Stable	Baa2	Baa	Baa	Baa
New Jersey American Water	Baa1	Stable	A3	Α	Α	Aa
Pennsylvania-American Water Company	Baa1	Stable	A3	Α	Α	Aa
Golden State Water Company	A2	Stable	A3	Α	Α	Aa
Pennichuck Water Works, Inc.	Baa3	Stable	Baa1	Α	Α	Aa
United Waterworks, Inc.	Baa1	Negative	Baa1	Baa	Baa	Aa
Latin America						

Positive Outlier Negative Outlier

Observations & outliers:

Companhia de Saneamento do Parana - SANEPAR

There are a number of positive outliers on this factor, mostly reflecting restrictive licence conditions or additional contractual arrangements that limit a regulated water utility's activity and ensure that it maintains focus on the core regulated activities.

Negative

Ba3 [13]

Ba2

Baa

Ba

Aa

Negative outliers usually relate to utilities that have other activities in addition to the core regulated business. AGBAR, for example, currently still operates a health insurance and hospital management business, although it is in the process of selling it. Upon completion of such sale, the company's score under the sub-factor for targeted proportion of operating profit outside of core activities would likely improve significantly, unless it embarks on activities other than the regulated water and waste water business.

Rating Factor # 4 - Results of Mapping

Factor 4 - Key Credit Metrics

Sub-Factor Weights				15.00%	15.00%	5.00%	5.00%
Company	Current Rating	Outlook	Final Indicated Rating	Adjusted Interest Coverage (FFO Interest Coverage)	Net Debt/RAB (or Debt/Cap)	FFO/Net Debt	RCF/ Cape
Europe							
Acquedotto Pugliese S.p.A.	Baa3 [12]	Negative	Ba3	Ba	В	Ba	Caa
Bratislavska vodarenska spolocnost, a.s.	Baa2 [11]	Stable	Baa3	Aaa	Aaa	Aaa	Ba
Sociedad Geenral de Aguas de Barcelona, S.A. (AGBAR)	A2	UR-D	A3	Α	Α	Aa	Ba
Anglian Water Services Limited	Baa1	Stable	Baa1	Ba	Ba	Ba	Ba
Dwr Cymru Cyfyngedig	A3	Stable	Baa1	Baa	Ba	Baa	Ba
Northumbrian Water Limited	Baa1	Stable	Baa1	Baa	Ba	Baa	Ba
Severn Trent Water Limited	A3	Stable	A3	Baa	Baa	Α	Ba
Southern Water Services Limited	Baa1	Stable	Baa1	Ba	Ba	Baa	Ba
Thames Water Utilities Limited	Baa1	Stable	Baa1	Ba	Ba	Α	В
United Utilities Water Plc	A3	Stable	A3	Baa	Baa	Α	Ba
Wessex Water Services Limited	A3	Stable	A3	Baa	Baa	Baa	Ba
Yorkshire Water Services Limited	Baa1	Stable	A3	Ba	Ва	Baa	Ba
South East Water Limited	Baa2	Stable	Baa2	Ba	Ba	Ba	Ba
South Staffordshire Water Plc	Baa2	Stable	Baa2	Ba	Ba	Α	Ba
Sutton & East Surrey Water Plc	Baa1	Stable	Baa1	Ba	Ba	Α	Ba
Veolia Water Central Ltd (formerly Three Valleys Water)	А3	Negative	Baa1	Ba	Baa	Α	Ва
North America							
American Waterworks Company, Inc.	Baa2	Stable	Baa2	Baa	Baa	Baa	Ba
New Jersey American Water	Baa1	Stable	A3	Α	Α	Α	Ba
Pennsylvania-American Water Company	Baa1	Stable	A3	Baa	Α	Α	Ba
Golden State Water Company	A2	Stable	A3	Baa	Α	Α	Ва
Pennichuck Water Works, Inc.	Baa3	Stable	Baa1	Baa	Α	Baa	В
United Waterworks, Inc.	Baa1	Negative	Baa1	Baa	Α	Baa	В
Latin America							
Companhia de Saneamento do Parana - SANEPAR	Ba3 [13]	Negative	Ba2	Baa	A	Α	Ва

Positive Outlier Negative Outlier

Observations & outliers:

There are a number of negative outliers for this factor, reflecting the generally free cash flow negative nature of the industry. Furthermore, a number of issuers have fully utilised the debt capacity provided by the fundamentally low business risk characteristics of regulated water utilities. We note that for those issuers particularly in the UK - that have executed financing transactions with credit-enhancing features, we have scored the relevant sub-factors (Adjusted Interest Coverage and Net Debt to RAB) in accordance with the cash lock-up triggers embedded in the funding structure. These companies are likely to exhibit a financial profile close to the financial covenants - whose breach would trigger a distribution lock-up - reflecting their generally large capex funding requirements as well as their shareholder structure, particularly the presence of infrastructure and other specialist funds.

Positive outliers under this factor essentially include issuers located in developing countries or other jurisdictions with weaker business fundamentals.

Appendix III - Industry Overview

Generally, regulated water utilities exhibit significantly lower business risk than other rated corporate sectors, and are considered by Moody's as exhibiting one of the lowest business risk profile even among other infrastructure issuers. ¹⁶

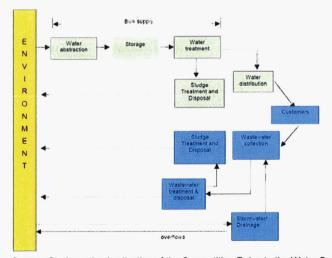
Under developed regulatory frameworks, the very low business risk primarily reflects:

- Monopoly-type activities, most commonly supported by long-term licence or concession agreements.
- Characteristically strong visibility in revenues and profit generation, due to (i) importance of water and wastewater services provided, which results in overall low demand volatility and general resilience to economic fluctuations, and (ii) clear and predictable mechanisms for tariff increases (embedded in the regulatory framework or concession regime), which will sustain revenues over the long term.
- Strong regulatory supervision due to the critical element of health and environmental implications of the water and wastewater services.

The high and sustainable levels of cash flows afforded by these characteristics can also translate into a significant capacity to sustain high debt levels over the long term. This is of particular importance as the sector as a whole has massive infrastructure funding needs to enhance the existing facilities to improve health and environmental standards. Due to the significant investment requirements issuers will need constant access to external funding as the vast amount of investments cannot be solely covered from internal cash flow generation. Although customer bills continue to rise to cover for the additional costs in financing the water and wastewater infrastructure (partly offset by efficiency savings in the operations), the industry also remains heavily subsidised.¹⁷

The graph below shows the main components of the water and wastewater value chain that form part of the overall services provision.

Value Chain of Water and Wastewater Services



Source: Study on the Application of the Competition Rules to the Water Sector in the European Community, Dec 2002, prepared by WRc and Economic for the European Commission

Please see Moody's Special Comment: "Regulated Industries – Q&A on Lending against the Regulated Asset Value", published in November 2007.

Levels and forms of subsidies differ from jurisdiction to jurisdiction. Most countries provide some form of cross subsidisation between customers through the application of average tariffs across any given water supply area compared to the actual cost of delivery to each respective customer. Furthermore, there are a number of explicit or implicit measures by which governments provide subsidies, such as reduced trade taxes for utilities, or income support and/or targeted assistance for customers in need. Subsidies can also be built directly into the tariff system. For example, when the UK water companies (in England and Wales) were privatised, the value of the regulated asset base was set at the amount achieved through privatisation. The privatisation value, however, was significantly lower than the replacement cost of the regulated assets, as it reflected the historically low charges paid by customers for the water and wastewater services. Given that the companies need to incur large amounts of maintenance capex, which has to be spent at the replacement value, the tariffs include a maintenance capex allowance to reflect such higher replacement values, but the return that companies earn is based on the lower regulated asset base. This ensured that customer prices did not rise as much as would otherwise have been the case.

The combination of water abstraction and treatment is also referred to bulk supply or wholesale activities. The vertical integration of the water supply chain can stop at this point. This is the case in a number of EU countries, where one large utility may be responsible for the water wholesale activities, whilst a number of smaller – usually municipal-owned – suppliers undertake the distribution to the end customers. Most of the water utilities rated by Moody's are integrated providers of water and/or wastewater services along the entire value chain, which in addition to the bulk supply consisting of water abstraction and treatment also includes the distribution and sale to customers. Among the Moody's rated universe, we only have one rated water wholesaler: Korea Water Resources Group, currently rated A2 with stable outlook.

This rating methodology is meant to cover not only utilities providing services along the value chain of water and wastewater treatment and disposal, but also addresses different business models adopted globally in managing the water and wastewater activities. In many countries around the world, the supply of water and treatment of wastewater are public services and the legal responsibility of municipalities. In these cases the legal ownership of the assets also lies with the municipalities. However, there exist a variety of operational models that are derived from this set-up.

First, the water and wastewater infrastructure assets can be operated under direct management by the municipality itself. In this case, the water and wastewater services would be part of the general regional or local administration. Such instances are not covered under this rating methodology.

Second, the management of the water and wastewater infrastructure can be delegated to another entity. Such entity can be – and in many instances is – partly or wholly owned by the regional or local government that retains the legal responsibility for the provision of water and wastewater services. Only a few countries worldwide have completely privatised the entire value chain of water and/or wastewater provision. The UK (more specifically England and Wales) is the most cited example of a country that has transferred the responsibility of water and wastewater services entirely to the private sector, albeit under stringent regulatory oversight.

With respect to delegated management, a variety of different forms of contracts, concessions or licence arrangements exists, which can be summarised into the following main business models:

Management Contract: This is usually a short-term (3-5 years) arrangement for the management of operational facilities. The assets remain in the public sector, usually with the relevant municipality, which also collects the user charges from the customers. The managing entity is remunerated by the municipality through payment of a management fee. Depending on the contract, it may include a number of performance targets against which the managing entity will be measured. Capital expenditure requirements and their funding remain principally the responsibility of the relevant municipality.

<u>Lease Contract</u>: A lease contract is similar to a management contract in that the asset ownership remains with the municipality. However, the relevant service undertaker, responsible for the operation of the assets will collect the user charges directly from the end customers, and may also be responsible for funding investments in the assets over the life of the contract. Lease contracts commonly apply over periods of 8-15 years.

Concession Contract: This is one of the most wide-ranging options in transferring responsibility for the assets to the relevant service undertaker. Concession arrangements usually cover a period of 25-30 years and transfer the economic benefits and costs of asset ownership to the service undertaker for the time of the concession. The service undertaker therefore also obtains responsibility for capital investments and funding requirements. The terms of the concession are negotiated on a bilateral basis, but may be based on a general legislative and/or regulatory framework applied throughout a jurisdiction. Given the length of the contract, a concession also generally includes tariff reviews at specified intervals. In Europe, concessions contracts are commonly used for water and wastewater operation in France, Italy and Spain. They can also be used in Latin America, e.g. in Brazil.

<u>Licence</u>: The licence approach is usually very similar to a long-term concession. However, the terms of the licence are usually set in law and are commonly applied to all licensed undertakers. Licences may have maturities similar to long-term concession or run in perpetuity, with an option to terminate the for severe performance failures. For example, licences apply for the UK water companies operating in England and Wales; for these companies the licences include a condition that allows licence termination subject to a 25 year notice period.

Furthermore, for single asset transactions or projects, a number of specific arrangements can be applied, such as Design, Build, Operate (DBO); Build, Own, Operate (BOO); or Build, Operate, Transfer (BOT). These contractual arrangements are generally used in cases of large investment requirements for a specific asset, which can be transferred to the private sector, for example through project finance arrangements. Such contracts are commonly restricted to one particular asset, such as the construction and operation of a treatment work, and can have similar terms as concessions. Contractors that solely operate under this kind of contract arrangement are not covered by this rating methodology.

Generally, all contracts and concessions are initially put out to competitive tender, and will usually require retendering at their expiry.

This rating methodology is intended to capture only issuers that for the time horizon of the licence and/or concession or contract are entitled to the exploitation rights of the relevant water and wastewater assets. In many cases, this may not apply to management contracts or lease arrangements. Pure asset operators, whose activities comprise solely of managing and servicing the assets are not captured by this rating methodology.

Asset managers or service providers are subject to different market dynamics, which are highlighted below; therefore, our credit assessment would take into account different rating factors.

- Shorter contract periods under the typical asset operator arrangement increase competitive pressures due
 to more frequent re-tendering, compared to monopoly or quasi-monopoly operations of an asset owner or
 a long-term concessionaire.
- Bilateral contracts for asset operation are often negotiated on a case-by-case basis, and may be subject to unilateral amendments. Conversely, long-term asset ownership/concession arrangements follow a more common framework that is based on legislation or jurisdiction-wide regulation that leaves less scope for individual negotiation.
- Tariff adjustments may be less frequent under the asset operator model, whereas the asset ownership arrangements usually require detailed definition of the tariff formula as well as the potential events that will allow the utility to re-set tariffs.
- Asset operation typically involves higher operational leverage and lower margins, leaving an operator's
 profitability more vulnerable to operational cost shocks. On the other hand, asset ownership embodies
 execution and funding risks in relation to generally sizeable capital investment requirements.

Appendix IV - Rating Issues Over the Next Decade

The main rating issues faced by regulated water companies are as follows:

- Political and Regulatory Risk: Moody's notes that given the importance of water and wastewater services, the level of political interference is generally higher than for other infrastructure sectors. This is underpinned by the fact that in most jurisdictions the provision of these services remains in public ownership and/or under government control. Tariff settings can be politically driven, creating the risk, particularly in emerging markets, that the set tariffs may be insufficient to upgrade or maintain the asset base. Affordability of tariffs is therefore more important for the assessment of a water company's credit quality than it is in other infrastructure sectors. Recent regulatory reviews were completed in the UK (for water companies in England and Wales), where the final price determination for water tariffs applicable over the five-year period 2010-15 (AMP5) were published in November 2009. Moody's notes that regular price reviews under a transparent and established framework are generally ratings neutral, but cautions that regulatory frameworks tend to undergo a continuous evolution. However, regulators in jurisdictions with high institutional strength are usually required to ensure that efficient companies remain financeable. On the other hand, regulatory risk is higher where the framework remains relatively new and untested or the rule of law and the relevant institutions in a given jurisdiction are less robust, which tends to be case primarily in emerging markets.
- Large Capital Expenditures: Water companies, in general, face large capital investment programmes to upgrade and expand their infrastructure and treatment works to the latest environmental standards and regulation applicable. In addition, many water utilities, for example in the UK, face significant maintenance requirements of an aging network. Despite current unsettled economic and, at times, financial market conditions, Moody's believes that it is unlikely that such investments will be delayed as, in most developed regulatory regimes, investments are driven by regulatory requirements to ensure a stable and reliable provision of quality water and wastewater services. Furthermore, regulated water companies in the developed world tend to earn a fair return generally with limited or no linkage to demand volume on new and replacement investments, which ensures that efficient companies can continue to finance their functions.
- Funding: As a result of the large capital programmes, as explained above, most regulated water utilities rated by Moody's experience negative free cash flows that are covered by additional debt funding. Whilst regulated water companies have so far demonstrated relatively good access to debt markets even in difficult market conditions, they may face a mismatch (to their detriment) between the pricing of funding and the return they earn on their asset base.
- Increasing Leverage: Over the last decade, leverage among the rated water utilities has increased significantly. This development (most visible in the UK) largely reflects shareholders' desire to maximise returns, as well as regulatory constraints that restrict the ability of companies to position themselves lower in the rating scale together with the nature of the industry and the way in which it is regulated. As low risk but highly capital intensive businesses, water companies have sought to optimise their capital structures by balancing the attractions of high leverage in the benign debt markets of recent years with the need to preserve solid investment-grade ratings to retain good access to the range of debt funding available to infrastructure issuers. As part of this development, regulated water companies that have been acquired in the last few years have generally been leveraged materially to re-finance acquisition debt. This trend increases event risk for lower leveraged entities to follow suit.
- Low Inflation/Deflation: A number of regulatory models across the world (a prime example being the UK) are designed in real terms (as opposed to nominal terms), where allowed revenues are computed in real terms and subsequently inflated by the Retail Price Index or Consumer Price Index. This is aimed at improving the allocation of the cost of the services across different generations of customers and thereby also providing some protection against cost inflation. However, Moody's notes that water utilities governed by this type of regulatory model generally need to raise a material, if not predominant portion of their debt on a conventional basis (i.e. debt instruments whose coupon is based on nominal interest rates). This may cause a timing mismatch of cash flows and debt service, as well as a potentially higher reliance on continued market access to raise debt. Furthermore, given their often aggressive dividend policy and

Moody's Global Infrastructure Finance

Rating Methodology

Global Regulated Water Utilities

tendency to maintain leverage (measured in relation to the regulated asset base) at constant levels close to the guidelines supporting their rating category, lower-than-expected inflation or deflation could lead certain companies to breach such parameters. Nevertheless, Moody's would expect managements to take actions (e.g. in the form of temporary reduction in shareholder distributions) to ensure that such breaches, if any, are of a temporary nature only. 18

For further discussion on this topic, see our Special Comment: "UK Water Sector: Stable Outlook, But Sustained Deflation Could Cause Negative rating Pressure", June 2009.

Moody's Related Research

Industry Outlook

UK Water Sector, December 2009 (119973)

Special Comment

- UK Water Sector: Key Ratios Used by Moody's in Assessing Companies' Credit Strength, March 2006
- UK Water Sector: Q&A on Moody's Approach to New Structured Financings, October 2006 (100343)
- UK Regulated Industries: Q&A on Lending against the Regulated Asset Value, November 2007 (105954)
- UK Water Sector: Moody's Comments on Ofwat's Proposal to Introduce Menu Regulation, March 2008 (108091)
- UK Water Sector: Moody's Comments on Competition Review, December 2008 (113036)
- UK Water Sector: Stable Outlook, But Sustained Deflation Could Cause Negative Rating Pressure, May 2009 (117451)
- UK Water Sector: Moody's Comments on Companies' Final Business Plans, June 2009 (118183)
- UK Water Sector: Moody's Comments on Draft Determination, September 2009 (120015)

Rating Methodologies

- The UK Water Sector: Moody's Approach to Rating Highly-Leveraged Structures for Asset Ownership, February 2001 (64166)
- The UK Water Sector: Financial Parameters and Structural Enhancements for Leveraged Financings, July 2002 (75507)

To access any of these reports, click on the entry above. Note that these references are current as of the date of publication of this report and that more recent reports may be available. All research may not be available to all clients,

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July 10, 2009

Industry Report Card:

U.S. Investor-Owned Water Utilities Successfully Navigate Turbulent Financial Markets

Primary Credit Analyst:

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Industry Report Card:

U.S. Investor-Owned Water Utilities Successfully Navigate Turbulent Financial Markets

In terms of credit quality, investor-owned water utilities make up one of the most stable and highly rated sectors in the U.S. During the first six months of 2009, Standard & Poor's Ratings Services did not take any rating actions or change the outlook on any rated water company, despite the turbulent economy. And we expect the water utilities' credit quality to retain that general stability throughout the remainder of 2009. The key trends we anticipate for the rest of the year include reductions in capital spending in response to the recession, continued access to debt markets coupled with improved access to the equity markets, and additional regulatory filings to address increased capital spending and higher operating costs.

Reduced Capital Spending Plans Should Ease Pressure On Leverage

As we anticipated in the last report card, almost all the water utilities we rate have either slightly lowered or maintained their capital spending estimates for 2009. York Water Co. reduced its estimate for 2009 capital expenditures by almost a third of the original \$20 million. One major cause is a decline in customer growth and consumption, which we believe is closely related to the housing industry collapse and general economic weakness. Housing starts in 2009 are expected to be less than 50% of the annual historical rate, with only a moderate improvement from this level in 2010. Most water utilities reported a drop in per capita water consumption of between 2% and 5% in 2008 and the first quarter of 2009, thanks mostly to falling industrial consumption.

The reduction in capital spending shouldn't affect the water sector's long-term growth prospects. On the contrary, it will likely result in reduced stresses on leverage and lower external debt financing requirements. Given the water companies' negative free cash flow positions, we believe they are taking a discerning look at nondiscretionary capital projects, and that they will postpone or cancel the less critical ones or any that could experience a lag in recovery. We also expect the utilities to increasingly approach regulators for spending approval prior to commencing essential big-ticket capital projects.

We expect the industry will keep outspending cash flow over the next several years and that capital spending will gradually increase as the economy and housing improve. A U.S. Environmental Protection Agency (EPA) report published in February 2009 ("Drinking Water Infrastructure Needs Survey and Assessment") said the industry needs to spend a total of \$335 billion from 2007 through 2027, primarily to replace network infrastructure and comply with water quality standards. Of this amount, \$201 billion (60%) is for replacing or refurbishing deteriorating transmission and distribution pipes; \$75 billion (22%) is for building, expanding, and rehabilitating water treatment facilities; and \$37 billion (11%) is for storage tanks. The balance is for building or rehabilitating surface water intake structures, drilled wells, spring collectors, and other needs. The \$335 billion price tag does not include the significant water system needs for projects related primarily to population growth or collection of water in dams and reservoirs. That figure also does not include capital spending for wastewater applications, which the EPA's report, "Clean Watersheds Needs Survey 2004", released in January 2008 estimates at more than \$200 billion from 2004 to 2023.

Access To Equity Is Improving, And Liquidity Remains Above Average

Rated U.S. investor-owned water utilities continue to demonstrate above-average access to debt financing and maintain adequate liquidity. During the first half of 2009, a few companies expanded their bank line borrowing capacity, some issued long-term bonds, and two issued equity. The companies did all this despite difficult market conditions. Connecticut Water Service Group almost doubled its bank lines to \$40 million in May 2009. American Water Works Co. Inc. (AWW) and its subsidiaries issued more than \$450 million in 2009. And California Water Service Group issued \$100 million of first mortgage bonds.

Share issuances by AWW and American States Water show that access to equity is also improving. This provides a bit of comfort because some companies, notably York Water and Middlesex Water Co., postponed equity issuances planned for late 2008. We expect York and Middlesex to complete small issuances in 2009 or 2010.

At less than \$100 million per issuance, capital market activity in the water sector is relatively small. Because of the relatively small dollar amount of these issuances, some utilities have chosen to raise capital through private placements, which may be completed relatively quickly and potentially at a lower total cost compared to a public offering. Others have used municipal conduits for tax-exempt issues. Borrowings of this type and access to low-cost funds under state revolving fund programs are likely to continue, especially for the smaller water utilities.

Ongoing Regulatory Support Is Likely, As Are Requests For Higher Rates

Fair and timely regulatory support remains one of the most important rating factors for a water utility's credit quality, and we expect rate case activity to maintain the high levels of the past two years. Allowed return on equity (ROE), which is one of the key factors when we evaluate regulation as part of a rating, was positive in most rate case decisions in 2009. In our view, that reflects the current increased cost of capital. The Pennsylvania Public Utility Commission has approved an ROE of 11% for York Water and Pennsylvania—American Water Co. The New Jersey Board of Public Utilities granted an allowed ROE of 10.3% for Middlesex Water, an improvement over the 10% or lower ROE previously granted in the state.

Falling pension asset values are another problem for water utilities. We expect the water utilities to request rate increases for the expected level of pension contributions. We also expect several companies to request enhanced rate-making mechanisms, such as decoupling. The separation of commodity throughput and financial health of the utility should support earnings and cash flow stability.

We expect states that already have decoupling measures for regulated gas and electricity distribution companies to extend these mechanisms to water utilities. We also expect commissions to grant infrastructure cost recovery mechanisms, under which companies recover capital investments outside of traditional rate cases. Such mechanisms currently exist in California, Connecticut, Delaware, Illinois, Indiana, Missouri, New York, Ohio, and Pennsylvania. In addition, utilities in other states have included infrastructure cost recovery mechanisms in pending rate cases.. Standard & Poor's views these measures as positive for credit quality because they bring additional stability to cash flows.

Analyzing The Ratings

Currently, Standard & Poor's considers all rated U.S. investor-owned water companies to have "excellent" business risk profiles, reflecting supportive regulations, monopolistic market positions, a mostly stable residential customer base, and low operating risk compared with other utilities. Many rated water companies also have modest nonregulated segments, which primarily provide operating and consulting services to water and wastewater facilities. Despite tight margins and low cash flow generation, these nonregulated units pose limited incremental risks to the company's consolidated credit profile. In addition to the complementary nature of the utility's nonregulated segment to its regulated operations, the company mitigates the risks as the water company passes through operating and capital costs to the facility's owner, which are usually highly rated counterparties such as municipalities or the U.S. military. As a result, ratings in the U.S. investor-owned water utility sector continue to display significant stability.

Given their excellent business risk profiles, the most significant differentiating factor for these companies has been financial performance, particularly the level and stability of cash flows. While most of the rated companies have an 'intermediate' financial risk profile, we consider The Baton Rouge Water Works Co. to have a 'modest' financial risk profile, reflecting above-average cash flow and leverage metrics. However, we consider the financial risk profiles of United Water New Jersey Inc. and United Waterworks Inc. to be 'significant' given the additional risks at parent United Water Resources (not rated). The 'aggressive' financial risk profiles of American Water Works Co. and its subsidiaries reflect weak cash flow metrics, significant goodwill impairments, and the need for significant rate relief to cover rising operating costs and capital expenditures.

Chart 1

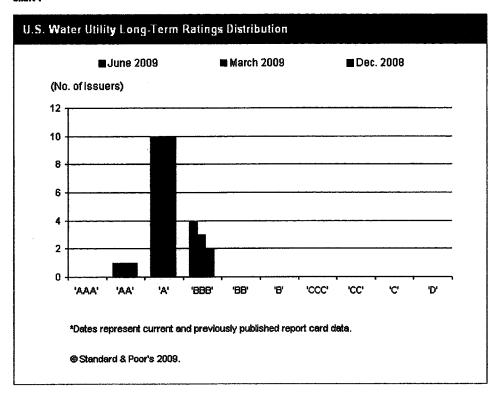
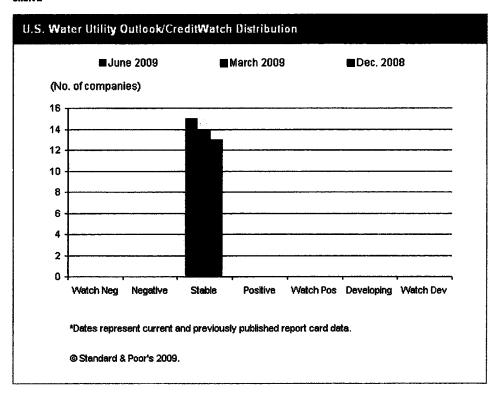


Chart 2



Issuer Review

Table 1

U.S. Investor-Owned W	later Utilities		
Company	Corporate credit rating*	Analyst	Comments
American States Water Co.	A/Stable/	Kenneth L. Farer	American States Water's financial performance has improved, benefiting from rate increases received in 2009 and 2008. Financial performance is expected to remain robust and cash flows improve from the \$9 million rate relief received in California through step rate increases for 2009. The decoupling measures implemented in California in 2008 have improved stability of revenues and cash flows. Cash flow coverages are strong for the rating, with adjusted FFO to total debt of 17%, and adjusted debt to capital at 57%. Leverage is expected to improve after the completion of the recent \$34 million equity issuance, which we expect the company to use to reduce short term debt levels, bringing leverage closer to 53%.
American Water Capital Corp.	BBB+/Stable/A-2	Kenneth L. Farer	See American Water Works Co. Inc.

Table 1

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U.S. Investor-Owned V	Vater Utilities (co	ont.)	
American Water Works Co. Inc.	BBB+/Stable/A-2	Kenneth L. Farer	American Water Works' cash flow continues to benefit from rate increases received in multiple jurisdictions. For the 12 months ended March 31, 2009, FFO to total debt was strong for the rating at 11%. However, leverage was high for the rating at 63% following the company's \$450 million goodwill impairment. Pro forma for the company's \$250 million equity issuance in June 2009, we expect leverage to be around 60%, which is adequate for the rating. We expect cash flows to improve further as rate increases are granted related to the company's \$260 million of pending rate cases and rate increases related to additional rate filings. However, we expect the company to meet its significant cash needs, including capital spending plans (\$800 million for 2009), annual dividend payments of \$130 million, and manageable debt maturities, through additional capital market activity. The increased debt levels will likely result in credit metrics remaining at current levels for the next few quarters.
New Jersey-American Water Co.	BBB+/Stable/	Kenneth L. Farer	See American Water Works Co. Inc.
Pennsylvania-American Water Co.	BBB+/Stable/	Kenneth L. Farer	See American Water Works Co. Inc.
Aqua Pennsylvania Inc.	A+/Stable/	Kenneth L. Farer	Parent Aqua America's stable financial performance continues, with cash flows benefiting from rate relief across various states—\$60 million in 2008 and \$23 million in 2009. We expect cash flows to improve further, as the company files rate cases of about \$70 million in the remainder of 2009, including Pennsylvania, its largest operating territory that accounts for more than one-half its cash flows. Adjusted FFO to total debt was a strong 21% at Aqua Pennsylvania for 12 months ended March 31, 2009. Aqua America's adjusted FFO to total debt of 18% for 12 months ended March 31, 2009, was adequate for the rating. Adjusted debt to capital was 57% at Aqua Pennsylvania and 58% at Aqua America, which is adequate for the rating. We expect the financial metrics to remain at current levels, as the company funds its capital expenditure plans of about \$300 million annually for the next years, through additional debt, rate case filings, and infrastructure surcharge mechanisms.
Baton Rouge Water Works Co. (The)	AA/Stable/	Kenneth L. Farer	Baton Rouge Water's financial performance remains robust, and we expect financial metrics to remain at the current strong levels, benefiting from the rate relief of \$2.5 million received in April 2009. As of March 31, 2009, FFO to total debt was 31%, FFO interest coverage was about 6x, and adjusted debt to capital was 43%. Given its minimal water treatment costs and access to good quality water sources, combined with a strong balance sheet, the company could make some small tuck-in acquisitions without putting pressure on its financial metrics.
California Water Service Co.	A+/Stable/	Kenneth L. Farer	Parent California Water Service Group's cash flows continue to benefit from an improving regulatory environment and rate relief of \$33 million received in July 2008. The company also received enhanced recovery mechanisms for revenue decoupling and recovery of purchased water costs, which we view as extremely supportive of credit quality. Under California's cost of capital proceedings, California Water Service Co. (CalWater) was granted an allowed of 10.2%. CalWater is expected to file its first consolidated rate case in July 2009, with the new rates likely to be effective in early 2011. Consolidated financial metrics were in line with the rating, with adjusted FFO to total debt at 20%, and adjusted debt to capital at 53% as of March 31, 2009. We expect the company to maintain current financial metrics, as it funds its \$100 million capital spending plans in a balanced manner, through a combination of debt and equity issuances, and internal cash flows.
Connecticut Water Co. (The)	A/Stable/	Kenneth L. Farer	See Connecticut Water Service Inc.
Connecticut Water Service Inc.	A/Stable/	Kenneth L. Farer	Connecticut Waters' financial performance continues to be stable, benefiting from rate relief received in 2008. Adjusted FFO to debt coverage was 16% and adjusted debt to capital was 53%, as of March 31, 2009. We expect financial metrics to weaken slightly in 2009, as the company funds its increased capital spending plans, mainly through debt issuances. We anticipate cash flows will improve in 2010, due to the proposed implementation of infrastructure surcharge mechanisms in 2009, and the company's expected rate relief application in early 2010. The announced reduction in rates and the six-month delay in filing its next rate case are not expected to materially affect the company's cash flows. We anticipate adjusted FFO debt coverage of around 14%, and debt to capital of around 55% for year-end 2009, before improving slightly in 2010
Golden State Water Co.	A/Stable/	Kenneth L. Farer	See American States Water Co.
			

Table 1

U.S. Investor-Owned V	Vater Utilities (d	cont.)	
Middlesex Water Co.	A-/Stable/	Kenneth L. Farer	Middlesex Water's cash flows were stable, despite of a 6% decline in water consumption at its New Jersey subsidiary, offset by customer growth in Delaware, and increases in its contracted operation revenues. We expect cash flows to improve further, with the interim rate relief of around \$2.5 million approved at its Tidewater subsidiary in March 2009. We expect the company to issue equity and debt to fund its capital spending plans in 2009. Company's adjusted FFO debt coverage was 11.2% for the 12 months ending March 31, 2009 and adjusted debt to capital was 57%. We expect adjusted FFO debt coverage to move closer to 12%, and leverage to fall to below 55% by the year's end.
United Water New Jersey Inc.	A-/Stable/	Kenneth L. Farer	See United Waterworks Inc.
United Waterworks Inc.	A-/Stable/	Kenneth L. Farer	Financial performance at United Waterworks (UWW) and United Water New Jersey (UWNJ) remains stable. Cash flows have benefited from rate case approvals UWW received in July 2008. FFO to debt continues to be about 12% for both UWW and UWNJ, with total debt to capital of around 55%. These levels are adequate for the rating. Given the capital spending plans for 2009, capital contributions from parent-Suez Environnement are likely needed to maintain leverage below 60%.
York Water Co. (The)	A-/Stable/	Kenneth L. Farer	York Water's cash flow continue to benefit from rate increase received in October 2008. For the 12 months ended March 31, 2009, FFO to total debt improved to 12%, from 11% for year ending Dec. 31, 2008, which is in line with the 'A-' rating. However, leverage continues to be slightly high for the rating, at 59%. We expect cash flows to remain stable, and leverage to improve to around 55%, once the company completes an anticipated equity offering in 2009.

^{*}Ratings are as of July 9, 2009.

Rating Activity

There were no rating actions or outlook changes in the first half of the year.

Selected Articles

Table 2

Previously Published U.S. Investor Owned Water Utility Articles					
Article title	Published date				
Issuer Ranking: U.S. Investor-Owned Water Utilities, Strongest To Weakest	July 10, 2009				
Funding Shortfall Of U.S. Utility Pension And Postretirement Benefits Adds To Industry's Cost Pressure Woes	May 19, 2009				
Key Credit Factors: Business And Financial Risks In The Investor-Owned Utilities Industry	Nov. 26, 2008				
Credit FAQ: Standard & Poor's Assessments Of Regulatory Climates For U.S Investor-Owned Utilities	Nov. 25, 2008				
Notching Of U.S. Investment-Grade Investor-Owned Utility Unsecured Debt Now Better Reflects Anticipated Absolute Recovery	Nov. 10, 2008				
Assessing U.S. Utility Regulatory Environments	Nov. 7, 2008				
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Contact Information

Table 3

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Harish Mewani of CRISIL Ltd., a Standard & Poor's Company, contributed to this report.

Industry Report Card: U.S. Investor-Owned Water Utilities Successfully Navigate Turbulent Financial Markets

Comments and ratings reflect available public data as of July 9, 2009.

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STANDARD &POOR'S

Global Credit Portal RatingsDirect®

April 19, 2011

Industry Report Card:

A Stable Industry Outlook Supports Solid Ratings For U.S. Regulated Gas And Water Utilities

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Industry Report Card:

A Stable Industry Outlook Supports Solid Ratings For U.S. Regulated Gas And Water Utilities

Due to a slowly improving economy, natural gas consumption continues to rise (up slightly over 1% in January 2011 versus January 2010 and up nearly 6% in 2010 versus 2009). We expect water consumption, which is generally aligned with population and household growth, to increase, but only minimally, in 2011. Modest changes in gas and water consumption, however, have little impact on credit quality for U.S. investor-owned gas and water utilities. Supportive regulatory decisions and continued access to the capital markets, however, are providing support for stable credit conditions in both sectors. Also, reduced natural gas price-related working capital requirements due to low gas prices are benefiting the gas utilities while additional regulatory filings to address increased capital spending are supporting the water utilities. Therefore, Standard & Poor's Ratings Services' base case 2011 outlook for both industries is stable.

Economic Outlook

We see little movement in regulated gas and water utilities' financial risk profiles during periods of economic change. The essential service that both utilities provide and the rate-regulated nature of their businesses allow them to generate stable cash flows and recover their costs despite economic conditions. We believe that our outlooks and ratings, which we assess based on our view of industry- and company-specific factors, are unlikely to change even if industry conditions worsen in the near term, as we describe in our pessimistic scenario (see table 1). However, if the economy grows faster than we're expecting in 2011 and 2012, as our optimistic case shows, then there could be some slight improvement in credit quality. Notable increases in housing starts and the number of households increases customer connections while better employment conditions also help to increase a utility's revenues. Regulatory risk could also lessen as concerns about elevated rates diminish and rising equity capital costs boost rate increases.

In our view, a weaker economy can have a much greater effect on a gas utility's nonregulated businesses, such as wholesale trading, retail marketing, and merchant gas storage operations. We typically cut our estimates of these businesses' cash flow contributions to accommodate this possibility, especially as low natural gas prices can hurt cash flow. In the gas storage and wholesale trading businesses, for example, low absolute prices and low price volatility limit companies' ability to generate cash flow. For gas utilities, an increasing contribution to consolidated cash flows from nonregulated businesses is a trend that is putting some pressure on credit quality. The size and degree of credit risk created by nonregulated businesses on the credit profile of water utilities is minimal.

Table 1

	Forecast/scenarios*						
•	Pessimistic		Baseline		Optimistic		Actual
-	2011	2012	2011	2012	2011	2012	2010
Macroeconomic indicators							
Real GDP (% change)	1.23	(0.23)	2.94	2.64	3.91	4.09	2.85
CPI (% change)	4.26	2.19	2.87	2.06	2.27	1.46	1.65
Core CPI (% change)	1.48	1.96	1.47	1.94	1.37	1.70	0.96
Number of households (mil.)	118.10	118.90	118.30	119.50	118.40	119.80	117.70
Yearly % change	0.31	0.74	0.49	1.02	0.57	1.23	0.33
ECI, wages and salaries (% change)	1.63	1.45	2.03	2.10	2.26	2.55	1.61
Unemployment rate (%)	9.40	10.30	8.70	8.41	8.42	7.33	9.63
Household obligations ratio (%)	15.20	15.10	15.60	15.10	15.20	15.00	16.90
Industry drivers							
Housing starts (mil. units)	0.45	0.66	0.61	0.98	0.77	1.24	0.59
Disposable income, 2000 \$ (% change)	0.64	(0.47)	2.28	1.15	3.06	2.34	1.40
Disposable income (% change)	3.80	1.58	4.51	3.03	4.89	3.69	3.13
Consumer spending, electricity (% change)	(1.02)	2.84	(1.21)	2.52	(0.52)	2.78	5.82
Deflator electricity prices (% change)	1.69	3.01	1.29	1.25	1.17	1.12	0.07
Natural gas % of electricity fuel use	0.23	0.22	0.23	0.22	0.23	0.22	0.23
Coal % of electricity fuel use	0.44	0.46	0.44	0.46	0.44	0.46	0.4
Petroleum % of electricity fuel use	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Power plant nonresidential (% change)	6.30	(13.20)	0.75	(9.14)	6.70	(10.10)	(7.95
Investment in public utilities (% change)	6.16	(7.67)	2.84	(3.61)	6.76	(4.37)	(7.91
Investment in electric and gas utilities (% change)	7.40	(11.10)	2.94	(7.23)	· 7.68	(8.45)	(7.68
Employment, utilities (mil.)	0.55	0.55	0.55	0.54	0.55	0.54	0.59
Employment, private (mil.)	108.40	108.40	109.40	111.70	109.70	113.30	107.30
PPI electricity (% change)	2.99	3.73	2.44	2.12	2.35	1.91	2.52
PPI coal (% change)	3.41	(2.85)	3.29	(3.36)	3.03	(3.35)	3.84
'BBB' bond yield (%)	8.30	10.70	6.44	8.24	6.11	6.06	6.04
10-yr. Treasury note yield (% change)	4.28	6.58	3.86	5.51	4.15	4.43	3.2
Interest rate spread (%)	4.06	4.15	2.59	2.73	1.96	1.63	2.82
industry economic outlook	Stable	Stable	Stable	Slightly	Slightly positive	Positive	

^{*}Pessimistic and optimistic forecasts are from the March *U.S. Risks To The Forecast,* on RatingsDirect. Baseline forecast from the April U.S. Monthly Forecast Report *Economic Meltdown?,* also on RatingsDirect. CPI--Consumer Price Index. PPI--Producer Price Index.

At Standard & Poor's, we publish monthly our economists' scenario of where we think the U.S. economy could be heading. Beyond projecting GDP and inflation, we also include outlooks for other major economic categories. We call this forecast our "baseline scenario," and we use it in all areas of our credit analyses. However, we realize that financial market participants also want to know how we think the economy could worsen--or improve--from our baseline scenario. Any point-in-time forecast of the economy will be wrong; it is simply a question of how far

wrong. As a result, we now project two additional scenarios, one upside and one downside. We set these scenarios approximately at one standard deviation from the base line (roughly the 20th and 80th percentiles of the distribution of possible outcomes). We use the downside case to estimate the credit impact of an economic outlook weaker than the expected case.

Industry Credit Outlook

In the gas sector, we had two ratings downgrades and no outlook changes during the first quarter. The rating trend, when considering outlooks and CreditWatch listings, is neutral: Of all the gas utilities we rate, 74% have a stable outlook, 13% have a positive or CreditWatch positive listing, while 13% have a negative or CreditWatch negative listing. In the water sector, we had no rating actions or outlook changes during the first quarter. With all the water utilities possessing stable outlooks, we expect the number of prospective rating changes to remain minimal in the near to intermediate term (one to two years).

Both gas and water utilities have relatively high ratings compared with the average for U.S. industrial companies ('B' category). This reflects the large percentage of gas utilities with excellent business risk profiles and to a much lesser extent strong business risk profiles. All water utilities have an excellent business risk profile. Generally offsetting the superior business risk profiles in both industries are the large number of aggressive financial risk profiles. About 49% of the gas industry carries an 'A' category corporate credit rating ('A+', 'A', and 'A-'), roughly 45% is in the 'BBB' category, about 4% is in the 'AA' category, and 2% are speculative grade ('BB+' and below). About 69% of the water utilities carry a 'A' category corporate credit rating, roughly 25% are in the 'BBB' rating category, and about 6% are in the 'AA' rating category. No water utilities are rated speculative grade.

Since 2011 began, Standard & Poor's lowered the corporate credit rating on one gas utility holding company and its operating subsidiary and has changed no water utility ratings. In March, we lowered the corporate credit rating on WGL Holdings Inc. (WGL) and Washington Gas Light Co. to 'A+' from 'AA-'. We lowered the ratings because WGL is increasing the size and consolidated cash flow percentage of its unregulated businesses. We believe these businesses are credit dilutive at WGL's high rating level because they are subject to more cash flow volatility and do not benefit from the regulated profile of the low-risk utility operations.

Solid industry fundamentals support the stable outlooks

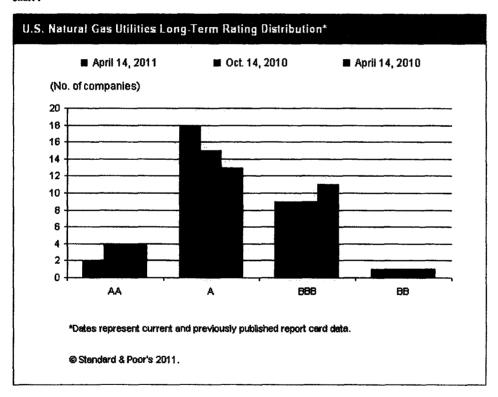
Regulation smoothes cash flows and supports cost recovery. State regulation will continue to be an influential factor for gas and water utility credit ratings in 2011. Many recent regulatory developments have been positive for credit quality. While average returns on equity (ROE) have trended slightly downward, several jurisdictions have granted enhanced rate-making mechanisms that help ensure greater cash flow stability. Most important are rate "decoupling" and distribution system investment charge (DSIC) mechanisms. Rate decoupling protects a utility's financial performance when conservation leads to lower consumption as it essentially makes the utility whole by increasing customer charges to compensate for lower usage. The DSIC program, prevalent in the water sector, allows for rate increases for nonrevenue producing investments to replace aging infrastructure outside of general rate proceedings. We expect capital spending in the water sector to continue on an upward trend due to a generally aging infrastructure and stringent water treatment and quality standards. The DSIC program would be especially helpful in our optimistic case if capital spending increased notably to avoid cash flow "lags," meaning that any revenue increases associated with today's capital spending would not need to wait until the next rate case. Our pessimistic case, which includes economic contraction, higher unemployment rates, and dropping consumer sentiment, could threaten regulatory support from state commissions.

Liquidity is also favorable. Liquidity is a strength for many gas and water utilities. Credit fundamentals indicate that most, if not all, gas and water utilities should continue to have ample access to funding sources and credit availability as banking syndicates are willing to negotiate longer term credit facilities. Some utilities are taking advantage of favorable capital markets access, strong investor appetite, and low interest rates to prefinance or extend debt maturities. Debt maturities in the gas and water sectors are relatively small in 2011 and will likely be refinanced with new debt or with borrowings under their revolving credit facilities. Some common stock has also been issued to partially fund construction spending, which helps to balance the capital structure between debt and equity.

Stable Outlook Is Likely To Continue

Our outlook for the gas and water utility industries remain stable based on gradual economic recovery, generally supportive regulatory decisions, including mechanisms that allow for timely cost recovery, receptive capital markets, and adequate access to liquidity.

Chart 1



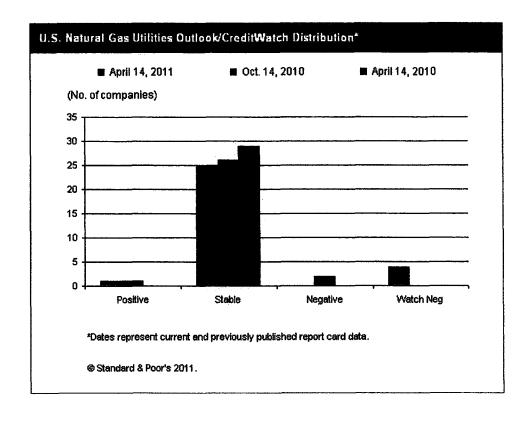


Chart 3

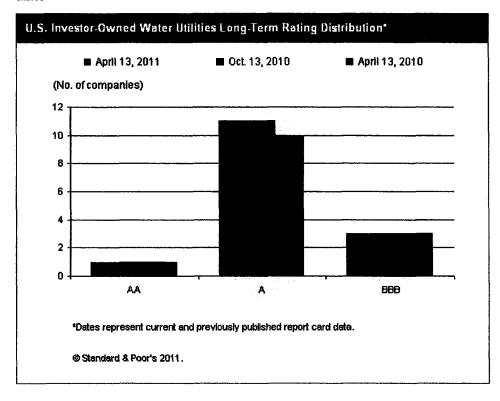
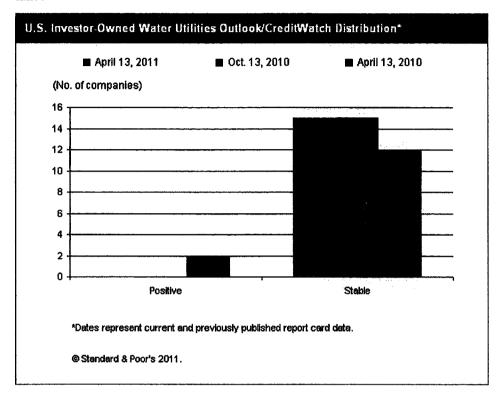


Chart 4



Issuer Review

Table 2

e David Lundberg, CFA
David na Lundberg, CFA
David Lundberg, CFA
William Ferara

Industry Report Card: A Stable Industry Outlook Supports Solid Ratings For U.S. Regulated Gas And Water

regulatory mechanisms in place, cash flow volatility will likely remain low. On a standalone basis, Indiana Gas's credit metrics should Lundberg, CFA remain strong for the rating, with FFO to debt in the 80% area when considering external debt only or 20% to 25% when including intracompany debt.

Laciede Gas Co. (A/Stable/A-1)

Laclede Gas's credit metrics for the year ended Dec. 31, 2010 improved from a year ago. The improvement reflects the rate case increase in Missouri effective Sept. 1, 2010 that added roughly \$8 million in 2010 and a \$3 million decrease in operating and maintenance expenses. Earnings and cash flow in fiscal 2011 should continue to benefit from the rate case as well as lower operating costs. For 2010, Laclede Gas's net income contributed around 92% to the consolidated net income.

Michael V. Grande

Laclede Group Inc. (The) (A/Stable/--)

Earnings and cash flow in fiscal 2011 should benefit from the continued impact of the rate case as well as lower operating costs. We continue to expect Laclede Energy's (nonregulated operations) contributions to decline marginally. We expect FFO/debt to be around 23% in 2011.

Michael V Grande

New Jersey Natural Gas Co. (A/Stable/A-1)

The ratings on New Jersey Natural Gas reflect the consolidated credit profile of parent New Jersey Resources Corp. (not rated), of which the company is the principal subsidiary. It continues to benefit from regulatory initiatives to reduce regulatory lag for projects or the effects of conservation. Another positive for the company is an above average customer growth rate of about 1.5% due to construction of new homes and conversions from other fuel sources. We expect the ratio of FFO/debt on a consolidated basis to be about 27% in 2011.

Michael V. Grande

NiSource Inc. (BBB-/Stable/--)

We revised the company's liquidity descriptor to adequate following its new \$1.5 billion revolving credit facility, which closed on March 3, 2011. We expect NiSource's approximate \$1 billion capital spending program in 2011 to lead to about \$200 million to \$300 million of negative discretionary cash flow. The most meaningful source of NiSource's new growth projects over the long-term is in the Marcellus Shale gas-gathering area. We expect NiSource's adjusted FFO to total debt to be about 13% in 2011.

William Ferara

Nicor Gas Co. (AA/Watch Neg/A-1+)

We expect AGL Resources' acquisition of Nicor to close in late 2011/early 2012. Based on our calculated pro forma credit metrics, we William would expect that the new company's corporate credit rating would be no lower than 'BBB+' when the acquisition closes. We expect Nicor Gas's operating performance and regulatory relationships to remain solid and its financial metrics strong. We expect Nicor Gas's adjusted FFO to total debt will be about 30% in 2011.

Nicor Inc. (AA/Watch Neg/A-1+)

We expect AGL Resources' acquisition of Nicor to close in late 2011/early 2012. Based on our calculated pro forma credit metrics, we would expect that the new company's corporate credit rating would be no lower than 'BBB+' when the acquisition closes. Nicor Gas remains Nicor's key credit strength and is continuing its solid performance. Subsidiary Tropical Shipping, which does not rely on Nicor for capital or liquidity needs, is performing weakly due to a notable reduction in demand. We view Nicor's Central Valley Gas Storage project, in which it expects to begin injecting natural gas in 2011, as presenting incremental risks to the consolidated business risk profile. We expect Nicor's adjusted FFO to total debt to be about 35% in 2011.

William Ferara

Northern Indiana Public Service Co. (BBB-/Stable/NR)

We base NIPSCO's ratings on the consolidated credit profile of its parent company, NiSource Inc. The company's new rate case filing is net revenue-neutral and seeks to rebalance the cost allocation whereby commercial and industrial customers' rates would increase. Ferara We do not expect this to dramatically influence parent NiSource's consolidated cash flow metrics given its cash flow diversity. NIPSCO is launching a major environmental and clean energy program totaling about \$600 million over the next six to eight years, which it can recover through rates as part of its settlement with the Environmental Protection Agency. We expect NiSource to generate adjusted FFO to total debt of about 13% in 2011.

Northwest Natural Gas Co. (A+/Stable/A-1)

Northwest Natural received further regulatory support when Oregon approved a balancing account to defer pension costs that are higher than currently collected in rates. This will help stabilize the annual pension expense without increasing customer rates. The pace of the company's nonregulated business ventures remains a focus after the October 2010 completion of the Gill Ranch storage facility (slightly more than \$200 million) and the potential Palomar pipeline project, with Northwest Natural's share of the costs nearly \$400 million. We expect the company's adjusted FFO to total debt to be about 20% to 25% in 2011.

William Ferara

PNG Companies LLC (BBB-/Stable/--)

We expect the Pennsylvania Public Utilities Commission to grant rate increases to help improve PNG's cash flows, given current low customer costs. Current metrics are in line with our expectations at initial rating. We expect the operating company, Peoples Natural Gas, to pursue additional rate increases that will likely take effect in the second half of 2011. These increases will allow for FFO to debt to be in the low teens and debt to capital between 50% and 55% in 2011.

William

Industry Report Card: A Stable Industry Outlook Supports Solid Ratings For U.S. Regulated Gas And Water

Piedmont Natural Gas Co. Inc. (A/Stable/--)

We expect credit measures to remain consistent with FFO to debt in the 25% to 27% range. Liquidity has improved due to the company's new three-year \$650 million revolving credit agreement with a \$200 million accordion feature. This will further support the construction of its power generation service project portfolio. We expect capital spending to remain relatively heavy in the near term due to expenses related to its projects.

William

Questar Corp. (A/Stable/A-1)

For 2011, we expect Questar Corp to maintain strong consolidated financial metrics, with FFO to debt of about 26% and total debt to EBITDA between 2.6x and 2.8x. Questar has adequate liquidity to fund 2011 capital spending of about \$340 million, which it divides fairly evenly among its three business segments.

Michael V. Grande

Questar Gas Co. (A/Stable/--)

The ratings on Questar Gas reflect the consolidated credit profile of parent Questar Corp. (A/Stable/A-1). We expect Questar Gas to achieve stand-alone FFO to debt in the mid-20% area and a debt to capitalization ratio of about 55% in 2011. The company's favorable Grande regulatory treatment and customer growth should allow the company to grow its rate base in the high single digits in 2011.

Michael V.

Questar Pipeline Co. (A/Stable/--)

The ratings on Questar Pipeline reflect the consolidated credit profile of parent Questar Corp. (A/Stable/A-1). With a weighted average of about 12 years, the company placed its Overthrust expansion into service in February 2011, about \$15 million under budget. It has about \$106 million of capital projects slated for 2011. We expect Questar Pipeline's's 2011 stand-alone adjusted debt to EBITDA to be about 3x and to have an FFO to debt ratio between 22% and 25%.

Michael V. Grande

SEMCO Energy Inc. (BBB-/Stable/--)

We base the rating on SEMCO on the consolidated credit profile of indirect parent Continental Energy Systems LLC. On June 29, 2010, Michael V. subsidiary SEMCO Gas filed for a rate increase of \$19.8 million (6.3% increase), use of a single tariff between its two existing divisions, a pipeline replacement program, and a three-year pilot program of a decoupling mechanism. Overall, we expect SEMCO will pursue higher rates and more cost-recovery mechanisms, thus improving key credit metrics from current levels. We expect SEMCO to have FFO to debt between 8% and 10% on a consolidated basis.

San Diego Gas & Electric Co. (A/Stable/A-1)

Sizable capital spending of about \$1.3 billion per year will notably increase SDG&E's rate base. Besides base replacement and maintenance expense, the largest item in the capital spending budget is the \$1.9 billion Sunrise Powerlink electric transmission line, which is in full-scale construction and should be in service in second-half 2012. SDG&E has an application outstanding for its 2012 general rate case which seeks a 6% rate increase, with the California Public Utilities Commission expected to make a decision by year-end 2011. We do not expect the decision to dramatically influence SDG&E's stand-alone credit metrics. We expect SDG&E's adjusted FFO to debt to be adequate for the rating in 2011, at roughly 20%.

William Ferara

Sempra Energy (BBB+/Stable/A-2)

The acquisition of the remaining 50% interest in Chilquinta Energia S.A. and a 38% interest in Luz del Sur S.A. for \$875 million exemplifies the company's opportunistic pursuit of international assets. Sizable capital expenditures focused on the regulated utilities will further add to its cash flow stability and increase the percentage of consolidated cash flows from the regulated utilities. The largest project is the \$1.9 billion Sunrise Powerlink electric transmission line that the company expects to be in service in 2012. We expect Sempra's adjusted FFO to debt ratio will be adequate for the rating at roughly 20% in 2011 and that cash flows will be highly predictable.

William Ferara

SourceGas LLC (BB+/Stable/--)

Consolidated credit metrics for the year ended Dec. 31, 2010 improved as compared with the same period in 2009, with FFO to debt of 15% and total debt to capital of 54%. Cash flows should improve due to the continued impact of the Colorado rate case and lower deferred taxes. However, we do not expect significant performance improvements over the intermediate term as the company will likely use excess cash flow for sponsor distributions and not debt reduction.

Michael V.

South Jersey Gas Co. (BBB+/Stable/A-2)

For 2011, we expect FFO/debt of around 20%, with debt to capital around 56%. Utility cash flows will improve from the recently completed rate case, as well as a full year of income produced by the capital investment recovery tracker. The company expects strong Grande performance from projects to improve cash flows. We expect the overall cash flow contribution of the nonregulated business to decline to about 40% over the next year.

Michael V.

Southern California Gas Co. (A/Stable/A-1)

Sizable capital expenditures of about \$800 million per year will notably increase SoCal Gas's rate base. Besides base replacement and William maintenance expenses, the largest item in the company's capital spending budget is a \$900 million advanced meter reading project, which is in the contracting and planning phase. SoCal Gas has an application outstanding for its 2012 general rate case, which seeks a 6% revenue increase, with the California Public Utilities Commission expected to make a decision by year-end 2011. We do not

Industry Report Card: A Stable Industry Outlook Supports Solid Ratings For U.S. Regulated Gas And Water Utilities

expect the decision to dramatically influence influence SoCal Gas's stand-alone credit metrics. We expect SoCal Gas's adjusted FFO to debt to be adequate for the rating in 2011, at roughly 25%.

Southern Indiana Gas & Electric Co. (A-/Stable/--)

Southern Indiana Gas & Electric, an indirect wholly owned subsidiary of Vectren Corp., posted strong results in 2010, partially due to a hotter-than-average summer. On a weather-normalized basis, SDG&E's cash flows should grow modestly, pending a rate case Lundb outcome expected in the first half of 2011. On a stand-alone basis, SDG&E's credit metrics will likely remain strong for the rating, with FFO to debt in the 65% to 70% area when considering only external debt or about 25% when also including intracompany debt.

David Lundberg, CFA

Southwest Gas Corp. (BBB/Positive/--)

Credit metrics for Southwest Gas continue to remain strong for the rating, with FFO to total debt of 25% and debt to capital of 54% for the year-ended 2010. The general rate cases filed in Nevada and California provided about \$27 million of additional operating margin in 2010. We continue to monitor management of the regulatory relationship in Arizona, which is a key factor related to any ratings upgrade.

Vectren Corp. (A-/Stable/--)

We expect Vectren to post consistent results in 2011, with cash flows flat to modestly increasing. The pending rate case at Southern Indiana Gas & Electric, higher coal prices, and higher backlog in the infrastructure services division should benefit results. However, the energy marketing division will likely suffer due to low natural gas volatility. We expect FFO to debt in the mid 20% area in 2011, partially aided by bonus depreciation.

David Lundberg, CFA

Vectron Utility Holdings Inc. (A-/Stable/A-2)

Vectren Utility Holdings, a wholly owned subsidiary of Vectren Corp., posted strong results in 2010, partially due to hotter than average summer weather. On a weather-normalized basis, VUHI's cashflows should grow modestly, pending a rate case outcome in southern Indiana. On a stand-alone basis, we expect FFO to debt to be in the high 20% area and debt to capital to be roughly 50%.

David Lundberg, CFA

WGL Holdings Inc. (A+/Stable/A-1)

WGL's strategy to increase the size and consolidated cash flow percentage of its nonregulated businesses, the pace of their growth, and the percentage of consolidated cash flows they represent resulted in a one-notch downgrade of the company's credit rating in March 2011. We expect WGL's utility Washington Gas Light (about 90% of consolidated operating income) is to retain its strong stand-alone business and financial risk performance. We expect WGL's adjusted FFO to total debt to be about 25% in 2011.

William Ferara

Washington Gas Light Co. (A+/Stable/A-1)

We expect Washington Gas Light to retain its strong stand-alone business and financial risk performance. The company continues to add new customers as well as implement operational efficiencies. We expect the Jan. 31, 2011 rate case filing in Virginia for about \$30 million to support cash flows toward the end of 2011. Partially offsetting these positives are higher employee-related costs and tax rates. We expect Washington Gas Light's adjusted FFO to total debt to be about 27% in 2011.

William Ferara

Table 3

Water company/Credit rating as of April 13, 2011/Comments

Analyst

American States Water Co. (A+/Stable/--)

We view American States Water proposed sale of its regulated operations in Arizona as mildly positive for the company's business William Ferara risk profile. The Arizona regulator's recent approval of the sale paves the way for the company to use proceeds to pay down its short-term borrowings and defer the need for future planned equity issuances. We expect FFO to total debt to be in the mid-20% area in 2011.

American Water Works Co. Inc. (BBB+/Stable/A-2)

American Water Works plans to use the proceeds from selling EPCOR USA to reduce equity and debt financings. The company is not planning on any equity offerings in 2011 due to the sale, which included regulated assets in Arizona and New Mexico for \$470 million in cash. We expect cash flows to improve as regulators grant rate increases related to the company's \$95 million of pending rate cases as well as rate increases related to additional rate filings. We expect FFO/debt to be about 13% in 2011.

William Ferara

Aqua Pennsylvania Inc. (A+/Stable/--)

We expect Aqua Pennsylvania's financial performance to approximate current levels, supported by additional rate increases and existing recovery mechanisms. Proceeds from the company's \$143 million first mortgage bond issuance in November 2010 will finance existing capital expenditures and refinance existing debt. Parent Aqua America's stable financial performance continues, with cash flows benefiting from rate relief across various states. We expect Aqua America's adjusted FFO to total debt to be about 19% in 2011.

William Ferara

Baton Rouge Water Works Co. (The) (AA/Stable/--)

Baton Rouge Water's financial performance continues to perform in line with expectations and should remain stable. Minimal water treatment costs and access to good quality water sources support the company's business risk profile, although the

William Ferara

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company's very small size and its geographic concentration are credit concerns. We expect adjusted FFO to total debt to be about 30% to 35% in 2011.

California Water Service Co. (A+/Stable/--)

We expect credit metrics to improve in 2011 as it receives the incremental cash flows from its rate case. We expect adjusted FFO to debt to be about 15% to 18%. In December 2010, the state regulator authorized rate increases that will add more than \$25 million to annual gross revenues and an additional \$8 million in rate relief that it may obtain after it completes certain capital projects. Increased debt and interest expense resulting from a November 2010 \$100 million first mortgage bond issuance had deflated credit metrics.

William Ferara

Connecticut Water Co. (The) (A/Stable/--)

We base Connecticut Water Service's ratings on the consolidated credit profile of its parent company, Connecticut Water Co. Connecticut Water's stand-alone credit profile benefits from a low-risk business model, although its small size and geographic concentration temper its strengths, and stable financial profile.

William Ferara

Connecticut Water Service Inc. (A/Stable/--)

Connecticut Water's financial performance continues to be stable, benefiting from the July 2010 rate relief that granted an \$8 million revenue increase. Credit metrics are adequate for the rating--we expect adjusted FFO to debt to be around 15% in 2011. William Ferara

Golden State Water Co. (A+/Stable/--)

We base Golden State Water's ratings on the consolidated credit profile of its ultimate parent, American States Water. On a stand-alone basis, the company continues to benefit from additional cash flows from its recently approved rate cases. In 2011, we expect Golden State Water's adjusted FFO to total debt to be in the low to mid-20% range. The company issued about \$60 million of long-term debt in April 2011 to pay down short-term borrowings and retire some long-term debt.

William Ferara

Middlesex Water Co. (A-/Stable/--)

Middlesex Water's credit metrics are in line with with the rating. We expect adjusted FFO to debt to be about 15% in 2011. We expect ratios to become more predictable and improve slightly in the long term due to the anticipated approval of Middlesex Water's purchased water adjustment clause, several subsidiary rate icnrease filings in 2011, and the Delaware regulator's approval of Tidewater?s debt service interest coverage of 1.34%.

William Ferara

New Jersey-American Water Co. (BBB+/Stable/--)

We expect New Jersey-American Water's credit quality to remain stable based on steady operating and financial performance. We base New Jersey-American Water's ratings on the consolidated credit profile of its ultimate parent, American Water Works

William Ferara

Pennsylvania-American Water Co. (BBB+/Stable/--)

We expect Pennsylvania-American Water's credit quality to remain stable based on steady operating and financial performance. We base the company's ratings on the consolidated credit profile of its ultimate parent, American Water Works Co.

William Ferara

San Jose Water Company (A/Stable/--)

We expect credit metrics to remain adequate for the rating, with adjusted FFO to debt at about 15% to 18% in 2011. Cash flows in William Ferara 2010 weakened due to several factors, including higher taxes paid, a \$450 million note issuance, and working capital changes. We expect the company to meet its cash requirements through balanced capital market activity.

United Water New Jersey Inc. (A-/Stable/--)

Financial performance at United Water New Jersey remain stable. We expect adjusted FFO to debt to be about 12% in 2011, which is adequate for the rating. Due to capital spending plans for 2011, the company will likely need capital contributions from parent Suez Environnement to maintain leverage below 60% (currently in the low-mid 50% area).

William Ferara

United Waterworks Inc. (A-/Stable/--)

United Waterworks' financial performance is marginally improving, with adjusted FFO to debt expected to be about 13% in 2011. The company expects to issue debt in the near-term to refinance long-term debt and pay down short-term borrowings. Due to capital spending plans for 2011, the company will likely need capital contributions from parent Suez Environnement to maintain leverage below 60% (currently in the low-mid 50% area).

William Ferara

York Water Co. (The) (A-/Stable/--)

A \$15 million debt issuance in October 2010 caused credit metrics to deteriorate marginally, however we expect the company's cash flows to increase in 2011 due to the recently approved \$3.4 million rate increase. We expect adjusted FFO to debt to improve to about 18% in 2011. The company does not expect to file a base rate increase request this year.

William Ferara

Industry Report Card: A Stable Industry Outlook Supports Solid Ratings For U.S. Regulated Gas And Water
Utilities

Recent Rating Activity

Table 4

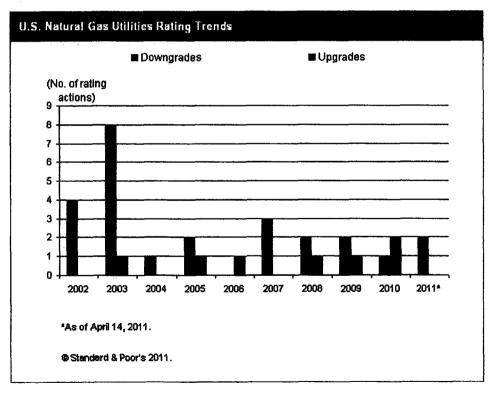
		Recent Rating Actions*							
To	From	Date							
A-/Watch Neg/A-2	A-/Stable/A-2	Dec. 7, 2010							
A-/Watch Neg/	A-/Stable/	Dec. 7, 2010							
AA/Watch Neg/A-1+	AA/Stable/A-1+	Dec. 7, 2010							
AA/Watch Neg/A-1+	AA/Stable/A-1+	Dec. 7, 2010							
A/Stable/A-1	//A-1	Dec. 7, 2010							
BBB+/Stable/A-2	BBB+/Stable/	March 21, 2011							
A+/Stable/A-1	AA-/Negative/A-1+	March 18, 2011							
A+/Stable/A-1	AA-/Negative/A-1+	March 18, 2011							
	A-/Watch Neg/A-2 A-/Watch Neg/ AA/Watch Neg/A-1+ AA/Watch Neg/A-1+ A/Stable/A-1 BBB+/Stable/A-2 A+/Stable/A-1	A-/Watch Neg/A-2							

^{*}Actions taken since the last report card dated Oct.14, 2010.

There were no rating actions in the water sector since the last report card.

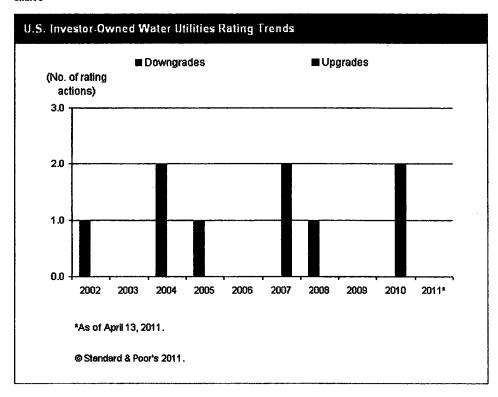
Rating Trends

Chart 5



Industry Report Card: A Stable Industry Outlook Supports Solid Ratings For U.S. Regulated Gas And Water
Utilities

Chart 6



Contact Information

Table 5

Contact Information						
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Related Criteria And Research

Top 10 Investor Questions: U.S. Gas And Water Utilities, Feb.15, 2011

Comments and ratings reflect available public data as of April 13, 2011.

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Global Credit Portal

October 26, 2011

Middlesex Water Co.

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Major Rating Factors

Strengths:

- Low-risk monopoly water-distribution business
- Supportive regulatory environment with favorable cost recovery mechanisms that enhance cash flow predictability
- Predominately residential and commercial customer base provides a stable revenue base

Weaknesses:

- Financial risk profile includes stable but weak cash flow metrics
- Limited service territory
- · Elevated capital spending requirements for infrastructure replacement and water-quality standards

Rationale

Standard & Poor's Ratings Services' ratings on Middlesex Water Co. reflect an excellent business risk profile and significant financial risk profile. The company owns regulated water and wastewater utility systems in Middlesex County, N.J., and New Castle, Kent, and Sussex counties in Delaware. Middlesex Water's excellent business risk profile reflects a low-risk monopoly water distribution business, a supportive regulatory environment with favorable cost-recovery mechanisms that enhance cash flow predictability, improving financial metrics, and a predominately residential and commercial customer base that provides a stable revenue base. Stable but weak cash flow metrics, the company's small size, geographic concentration, and increasing costs of compliance with water-quality standards temper the strengths somewhat.

The New Jersey Board of Public Utilities (NJBPU), Pennsylvania Public Utilities Commission, and Delaware Public Service Commission regulate Middlesex Water's subsidiaries. We view these regulators' policies as supportive, particularly in Delaware and Pennsylvania, due to their infrastructure surcharge mechanisms. In March 2010, the NJBPU granted a rate increase of \$7.8 million, about 50% of the requested amount, and allowed a return on equity of 10.3%. Also, effective July 1, 2011, Tidewater's DEPSC approved DSIC was increased to 1.98% from 1.34%. The DSIC was proposed in New Jersey, and the utility expects a decision by year-end 2011. An approval would be credit supportive to the utility. Tidewater Utilities (not rated), the Delaware subsidiary, requested an overall rate request of \$6.9 million in September 2011. We expect Middlesex Water to continue to request a rate increase in each of its jurisdictions every few years to minimize rate shock for its customers and support its financial profile.

Middlesex Water benefits from better-than-average demographics in its markets. Residential customers account for about 45% of revenues, and long-term contracts for water sales represent about 15%, providing a predictable revenue base. We expect customer growth to slow slightly from historical levels in the intermediate term, reflecting general economic conditions and reduced residential construction. Although this could reduce growth in cash flows, it could also reduce capital spending, which would be neutral for credit metrics. The company obtains about 70% of its total water supply from the Delaware and Raritan Canal, about 20% from groundwater sources, and purchases the remainder from other water utilities. The low amount of purchased water maintains predictable operating costs.

Corporate Credit Rating

The company generates about 10% of its revenues from nonregulated water and wastewater services and water-line maintenance programs. We view these operations as fairly low risk, given the contracts long-term nature with municipal entities.

Middlesex Water's significant financial risk is characterized by relatively high debt leverage and weak cash flows. Leverage metrics somewhat improved from the company's June 2010 stock issuance that repaid a portion of the outstanding short-term debt. As of June 30, 2011, the company had a total adjusted debt-to-capital ratio of 51%. Its adjusted funds from operations (FFO)-to-total debt ratio improved to 15% from 13% in the same period of the previous year. We expect modest deterioration in key ratios as the company funds a portion of its capital expenditures from its revolving credit lines.

Liquidity

Under our corporate liquidity methodology, we consider Middlesex Water's liquidity to be adequate. Projected sources of liquidity (cash, FFO, and credit facility availability) exceed projected uses (maintenance and significant discretionary capital expenditures, dividends, and modest debt maturities) by roughly 1.7x during the next 12 months. Quantitatively this maps to the strong category, but the company's small size and upcoming credit line maturities apply that the liquidity is more appropriately adequate.

For the 12 months ended June 30, 2011, Middlesex Water reported cash from operations of \$26 million, credit facility availability of about \$40 million, capital expenditures of \$23 million, debt maturities of \$4 million, and dividends of \$11 million. We do not expect forecast 2011 capital expenditures of \$23 million to pose a significant issue for the company because spending in Delaware and Pennsylvania will provide incremental cash flow from the infrastructure mechanisms. The company can issue about \$100 million in first mortgage bonds per its existing debt-incurrence tests. In our view, Middlesex Water's liquidity position also benefits from its ability to lower capital spending, if necessary, and utilities proven track record of successfully accessing the capital markets even during very challenging market conditions.

Recovery analysis

We assign recovery ratings to first mortgage bonds (FMBs) issued by investment-grade U.S. utilities, which can result in issue ratings being notched above a utility's corporate credit rating (CCR) depending on the CCR category and the extent of the collateral coverage. The investment-grade FMB recovery methodology is based on the ample historical record of nearly 100% recovery for secured bondholders in utility bankruptcies and our view that the factors that supported those recoveries (limited size of the creditor class and the durable value of utility rate-based assets during and after a reorganization given the essential service provided and the high replacement cost) will persist in the future. Under our notching criteria, we consider the limitations of FMB issuance under the utility's indenture relative to the value of the collateral pledged to bondholders, management's stated intentions on future FMB issuance, as well as the regulatory limitations on bond issuance when assigning issue ratings to utility FMBs. FMB ratings can exceed a utility's CCR by up to one notch in the 'A' category, two notches in the 'BBB' category, and three notches in speculative-grade categories.

Middlesex's FMBs benefit from a first-priority lien on substantially all of the utility's real property owned or subsequently acquired. Collateral coverage is over 1.5x which supports a recovery rating of '1+' and an 'A' first mortgage bond rating, one notch above the corporate credit rating. The '1+' recovery rating reflects the very strong asset protection provided by the utility's asset base, the relatively stable value of assets of regulated utilities even in a default, and restrictions on the issuance of additional secured debt.

Outlook

The stable outlook reflects our expectations for continued supportive regulation, timely rate relief, and stable financial performance. We could lower the rating if there is an unfavorable shift in regulatory conditions or credit metrics deteriorate such that the FFO-to-debt ratio remains less than 12% on a consistent basis. Although we do not expect to do so in the near term, we could raise the rating if rate increases and returns on equity are sufficient to consistently achieve an FFO-to-debt ratio of 15% and a debt-to-capital ratio in the 50%-55% range.

Accounting

We adjust Middlesex Water's financial statements for pension and postretirement obligations, accrued interest, and hybrid securities. The adjustments include adding a debt equivalent, interest expense, and depreciation to the company's reported financial statements. As a result, for year-end 2010 we added a debt equivalent of about \$18.8 million for pension and postretirement obligations and about \$1.6 million for accrued interest.

We characterize Middlesex Water's \$3.4 million of preferred securities as having "intermediate equity" content. In accordance with our hybrid securities criteria, we ascribe 50% of the amount to debt and 50% to equity when calculating adjusted financial ratios.

Table 1

Middlesex Water Co Peer Comparison									
Industry Sector: Water									
	Middlesex Water Co.	The York Water Co.	Connecticut Water Service Inc.	American Water Works Co. Inc.					
Rating as of Oct. 24, 2011	A-/Stable/	A-/Stable/	A/Stable/	BB8+/Stable/A-2					
	Average of past three fiscal years								
(Mil. \$)									
Revenues	95.0	36.3	62.4	2,496.1					
EBITOA	34.2	22.0	25.6	1,007.4					
Net income from cont. oper.	12.2	7.6	9.8	(175.9)					
Funds from operations (FFO)	23.1	13.8	20.7	697.6					
Capital expenditures	25.7	15.6	24.8	859.4					
Free operating cash flow	(3.7)	(1.6)	(5.6)	(164.7)					
Discretionary cash flow	(13.6)	(7.6)	(13.3)	(282.7)					
Cash and short-term investments	3.3	0.4	2.4	15.0					
Debt	184.0	92.4	135.7	6,140.9					
Equity	151.9	82.6	108.8	4,093.3					
Adjusted ratios									
EBITDA margin (%)	36.0	60.5	41.1	40.4					
EBITDA interest coverage (x)	4.7	4.2	4.7	3.0					
EBIT interest coverage (x)	3.6	3.3	3.6	2.1					
Return on capital (%)	7.4	9.2	7.2	6.5					
FFO/debt (%)	12.6	14.9	15.2	11.4					

Table 1

Middlesex Water Co Peer Comparison (cont.)							
Free operating cash flow/debt (%)	(2.0)	(1.8)	(4.1)	(2.7)			
Debt/EBITDA (x)	5.4	4.2	5.3	6.1			
Total debt/debt plus equity (%)	54.8	52.8	55.5	60.0			

Table 2

Middlesex Water Co Financial Summary								
Industry Sector: Water								
	Fiscal year ended Dec. 31							
	2010	2009	2008	2007	2006			
Rating history	A-/Stable/	A-/Stable/	A-/Stable/	A-/Stable/	A-/Stable/-			
(Mil. \$)								
Revenues	102.7	91.2	91.0	86.1	81.1			
EBITDA	38.1	31.3	33.1	31.4	30.			
Interest expense	7.2	7.3	7.3	6.9	7.4			
Net income from continuing operations	14.3	10.0	12.2	11.8	10.0			
Funds from operations (FFO)	25.7	23.1	20.7	19.5	17.2			
Capital expenditures	29.2	19.7	28.1	21.6	30.4			
Dividends paid	10.6	9.7	9,5	9.3	8.			
Debt	177.3	192.0	182.6	153.3	147.9			
Preferred stock	1.7	1.7	1.7	2.0	2.0			
Equity	175.0	141.3	139.5	135.2	131.3			
Debt and equity	352.3	333.3	322.1	288.5	279.2			
Adjusted ratios								
EBITDA margin (%)	37.1	34.4	36.4	36.5	37.1			
EBITDA interest coverage (x)	5.3	4.3	4.6	4.6	4.0			
EBIT interest coverage (x)	4.0	3.2	3.5	3.6	3.			
FFO int, cov. (x)	4.5	4.1	3.8	3.8	3.3			
FFO/debt (%)	14.5	12.0	11.3	12.7	11.6			
Discretionary cash flow/debt (%)	(7.2)	(5.4)	(9.7)	(8.2)	(15.4			
Net cash flow/capex (%)	51.4	67.9	40.1	47.4	29.2			
Debt/EBITDA (x)	4.7	6.1	5,5	4.9	4.9			
Debt/debt and equity (%)	50.3	57.6	56.7	53.2	53.0			
Return on capital (%)	7.8	6.5	7.8	8.1	8.2			
Return on common equity (%)	8.4	6.3	8.4	8.6	8.2			
Common dividend payout ratio (un-adj.) (%)	74.4	98.1	78.0	78.8	83.7			

Table 3

	Fiscal year ended Dec. 31, 2010										
Middlesex Wat	ter Co. repoi	ted amounts	<u> </u>								
	Sh Debt	areholders' equity	Revenues	EBITDA	Operating income	interest expense	Cash flow from operations	Cash flow from operations	Dividends paid	Capital expenditures	
Reported	155.3	176.6	102.7	35.8	26.6	6.0	25.6	25.6	10.7	29.6	
Standard & Poo	or's adjustm	ents									
Intermediate hybrids reported as equity	1.7	(1.7)			••	0.1	(0.1)	(0.1)	(0.1)	•	
Postretirement benefit obligations	18.8			2.0	2.0	0.8	2.0	2.0		••	
Capitalized interest			••			0.4	(0.4)	(0.4)		(0.4	
Share-based compensation expense				0.3	••						
Reclassification of nonoperating income (expenses)		••	**		0.5	••	**	••	; 	-	
Reclassification								(1.4)			
of working-capital cash flow changes											
Debt - Accrued interest not included in reported debt	1.6										
Total adjustments	22.0	(1.7)	0.0	2.3	2.4	1.2	1.5	0.1	(0.1)	(0.4	
Standard & Poo	or's adjusted	d amounts									
	Debt	Equity	Revenues	EBITDA	EBIT	interest expense	Cash flow from operations	Funds from operations	Dividends paid	Capita expenditures	
Adjusted	177.3	175.0	102.7	38.1	29.0	7.2	27.1	25.7	10.6	29.2	
	1/4-0(0-6	J. 20 201	4N								
Ratings Detai Middlesex Wa	Maria Maria	ober Zo, Zer									
Corporate Credit	100					541 4 P	A-/Stable	<i>_</i>			
Senior Secured (040::Turkin						A				
Corporate Cred		istory									
22-Jun-2005							A-/Stable	/			
30-May-2003							A/Negativ	1e/-÷			
31-May-1991							A/Stable/	-			
Business Risk Profile							Excellent				
Financial Risk Profile						¥1100	Significan				

Ratings Detail (As Of October 26, 2011) (cont.)

Debt Maturities

As of Dec. 31, 2010:

2011: \$4.4 mil. 2012: \$4.6 mil.

2013: \$4.6 mil. 2014: \$4.7 mil.

2015: \$4.8 mil.

Thereafter: \$115.2 mil.

^{*}Unless otherwise noted, all ratings in this report are global scale ratings. Standard & Poor's credit ratings on the global scale are comparable across countries. Standard & Poor's credit ratings on a national scale are relative to obligors or obligations within that specific country.

STANDARD &POOR'S

Global Credit Portal RatingsDirect

October 28, 2011

Research Update:

Connecticut Water Service Inc. And Subsidiary Rating Outlook Revised To Negative From Stable On Acquisition Pact

Primary Credit Analyst:

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Research Update:

Connecticut Water Service Inc. And Subsidiary Rating Outlook Revised To Negative From Stable On Acquisition Pact

Overview

- Connecticut Water Service Inc. (CTWS) has reached a definitive agreement to purchase Aqua Maine Inc. from Aqua America Inc. for a total enterprise value of approximately \$53.5 million and expects to close on the transaction in first-quarter 2012.
- The combination will create the largest publicly-traded water utility company in New England.
- We affirmed our 'A' corporate credit rating on CTWS and its primary subsidiary, Connecticut Water Co.
- We revised the ratings outlook on both CTWS and Connecticut Water Co. to negative from stable.
- CTWS plans to issue a material amount of common equity in the next 12 to 15 months to reduce its debt balance, which could improve credit metrics.
- The negative outlook reflects our expectation of notably weaker credit
 metrics as a result of the debt-leveraged acquisition of Aqua Maine as
 well as additional near-term debt funding of its capital expenditure
 program.

Rating Action

On Oct. 28, 2011, Standard & Poor's Ratings Services revised its rating outlooks on Connecticut Water Service Inc. (CTWS) and its primary subsidiary, Connecticut Water Co. (CWC), to negative from stable. We affirmed the 'A' long-term corporate credit ratings on both entities.

Rationale

The negative outlook reflects our expectation of notably weaker credit metrics as a result of the utility's debt-leveraged acquisition of Aqua Maine as well as additional near-term debt funding of its capital expenditure program.

CTWS will issue \$36.5 million of debt to finance the transaction while also assuming \$17 million of debt at Aqua Maine. In addition, CTWS expects to issue \$24 million of incremental debt by year-end 2011 to fund capital expenditures. As a result, we expect year-end 2011 funds from operations (FFO) to debt to be about 11%, which is not commensurate for the 'A' rating. CTWS plans to issue a material amount of common equity in the next twelve to fifteen months to reduce its debt balance, which could lead us to revise the outlook to stable. Absent the equity issuance and associated decrease in the company's debt

Research Update: Connecticut Water Service Inc. And Subsidiary Rating Outlook Revised To Negative From Stable
On Acausition Pact

balance, we would lower our ratings on CTWS and CWC, likely to 'A-'.

The ratings on regulated water utility CTWS reflect an excellent business risk profile and significant financial risk profile, in our assessment. CWC provides water service to more than 90,000 customers in 55 towns throughout Connecticut. The Aqua Maine transaction will add an additional 16,000 customers, making it the largest publicly-traded water utility company in New England. CWC typically provides more than 90% of CTWS's operating income.

CTWS's excellent business risk profile reflects a low-risk monopoly water-distribution business, a supportive regulatory environment with favorable cost-recovery mechanisms that enhance cash flow predictability, a mostly residential and commercial customer base that provides stable revenues, and solid operations. The company's small size and geographic concentration somewhat temper its strengths.

The Connecticut Department of Utility Control (DPUC) regulates the utility. We view the DPUC's policies as supportive of credit quality, including the surcharge mechanisms, which allow the company to recover capital spending costs outside of traditional rate proceedings. The most recently approved rate case, in July 2010, increased revenues by \$8 million (50% of the company's first-year request) without subsequent increases as requested in CWC's application. However, an allowed return on equity (ROE) of 9.75% is materially lower than the previously approved ROE of 10.125% and the company's request of 11.3% and generally subpar when compared with other U.S. water utilities. The utility has benefited from a surcharge mechanism that allows recovery of costs associated with the replacement of aging infrastructure by adding an additional \$2.2 million in revenues. CTWS's nonregulated subsidiaries include real estate company Chester Realty Inc. (not rated) and New England Water Utility Services Inc. (not rated), which provides water and sewer-related services. The nonregulated operations, in addition to real estate sales by the regulated subsidiaries, have historically accounted for less than 10% of revenues and we expect this level to continue to increase materially from these levels. A mostly fee-based structure, a close connection to the company's core business, and modest capital requirements mitigate the risks of the nonregulated operations, which are higher than those of the regulated utility.

We characterize the financial risk profile as significant due to high debt leverage and weak cash flow metrics. These factors are somewhat offset by moderate financial policies and stable cash flows. As of June 30, 2011, CTWS had total debt, including capitalized operating leases and tax-effected pension and postretirement obligations, of \$148 million, with an adjusted debt-to-capital ratio of about 56%. For the year-ended 2011, we expect funds from operations to debt of about 11%, which is weak for the rating. We expect the company to issue a material amount of common equity to partially fund the Aqua Maine transaction and reduce its debt balance, which will help metrics improve to an FFO-to-debt ratio of about 15%.

Research Update: Connecticut Water Service Inc. And Subsidiary Rating Outlook Revised To Negative From Stable On Acquisition Pact

Liquidity

Under Standard & Poor's corporate liquidity methodology, we consider Connecticut Water Service Inc.'s consolidated liquidity to be "adequate". The company's projected sources of liquidity consist of FFO of about \$24 million and availability under its \$40 million revolving credit facility of about \$14 million, and debt to purchase Aqua Maine. Projected uses of cash include maintenance and significant discretionary capital expenditures and shareholder distributions. Projected sources of liquidity exceed projected uses by 1.4x during the next 12 months. For the 12 months ended June 30, 2011, Connecticut Water Service Inc. reported FFO of \$24 million, capital expenditures of \$23 million, the purchase price of Aqua Maine of \$36 million, and dividends of \$8 million. The company plans to access the capital markets in either in the fourth quarter of 2011 or first quarter of 2012 by issuing up to \$24 million in private activity bonds. The company is also issuing debt to finance the Aqua Maine transaction, but plans to issue equity to maintain its credit metrics.

The company is required to comply with certain covenants in connection with the various long-term agreements. As of June 30, 2011, the company was in compliance with the required leverage levels (debt-to-capital ratio of less than 70% and EBITDA interest coverage of more than 2x). Utilities generally have a proven track record of successfully accessing capital markets, even during very challenging market conditions.

Outlook

The negative outlook reflects our expectation of notably weaker credit metrics as a result of the company's debt-leveraged acquisition of Aqua Maine as well as additional near-term debt funding of its capital expenditure program. We expect year-end 2011 FFO to debt to be about 11%, which is not commensurate for the 'A' rating. We would likely lower the rating on CTWS and CWC, possibly to 'A-', if FFO to total debt remained below 14% absent the company's expected equity issuance and associated decrease in debt leverage. We would revise the outlook to stable if the company is able to improve credit metrics in the 15%-18% range after the equity offering.

Related Criteria And Research

- U.S. Regulated Gas And Water Utilities' Credit Quality Remains Stable, Oct. 6, 2011
- Top 10 Investor Questions: U.S. Gas And Water Utilities, Feb. 15, 2011

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From

Connecticut Water Service Inc. Corporate Credit Rating

A/Negative/--

A/Stable/--

Research Update: Connecticut Water Service Inc. And Subsidiary Rating Outlook Revised To Negative From Stable On Acquisition Pact

The Connecticut Water Co.
Corporate Credit Rating

A/Negative/--

A/Stable/--

Complete ratings information is available to subscribers of RatingsDirect on the Global Credit Portal at www.globalcreditportal.com. All ratings affected by this rating action can be found on Standard & Poor's public Web site at www.standardandpoors.com. Use the Ratings search box located in the left column.

STANDARD &POOR'S

Global Credit PortalRatingsDirect

December 19, 2011

Research Update:

California Water Service Co. Outlook Revised To Negative On Weak Credit Metrics; Ratings Affirmed

Primary Credit Analyst:

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Research Update:

California Water Service Co. Outlook Revised To Negative On Weak Credit Metrics; Ratings Affirmed

Overview

- We expect Cal Water's credit metrics to remain weak in the near term as compared with other water utilities at the same rating.
- We are affirming our corporate credit rating on the company and revising the outlook to negative.
- We could lower the rating if the company sustains its funds from operations/debt ratio at or roughly below 16%.

Rating Action

On Dec. 19, 2011, Standard & Poor's Ratings Services revised its rating outlook on California Water Service Co. (Cal Water) to negative from stable. We affirmed the 'A+' long-term corporate credit rating and the 'AA-' issue-level rating. The recovery rating of '1+' remains unchanged, and indicates highest expectation (100%) of recovery if a default occurs.

Rationale

We changed the outlook to negative to reflect our belief that the company will retain credit metrics that are weak for the 'A+' rating. The rating on Cal Water reflects the consolidated credit profile of parent, California Water Service Group (CWSG; unrated). As of Sept. 30, 2011, CWSG had \$519.8 million of reported debt. Cal Water, which provides about 95% of CWSG's revenues and operating income, serves more than 470,000 customers in 83 communities throughout California. The remaining revenues at CWSG mainly come from regulated water utility subsidiaries Hawaii Water Service Co., Washington Water Service Co., and New Mexico Water Service Co. CWSG also owns Utility Services, a small, nonregulated subsidiary involved in low-risk services associated with water systems.

Cal Water's excellent business risk profile stems from a supportive regulatory environment, limited competition, strong, largely residential markets, and relatively low operating risk. Somewhat tempering these strengths are capital requirements associated with infrastructure replacement needs, compliance with water quality standards, and limited control of future water supply. The company's intermediate financial risk profile reflects stable regulated revenues, timely recovery of capital spending, and strong access to capital markets.

Research Update: California Water Service Co. Outlook Revised To Negative On Weak Credit Metrics; Ratings Affirmed

The California Public Utilities Commission (CPUC), which regulates Cal Water, has granted a number of supportive cost-recovery mechanisms to allow the company to generate stable cash flows and recover costs with minimal regulatory lag. However, as a result of the pipeline explosion in San Bruno, California in 2010, we believe regulation will become somewhat stricter. Cal Water recovers a significant portion of revenues under fixed monthly charges and benefits from a mechanism that insulates revenues from reduced usage due to customer conservation or weather. In addition, the company adjusts rates to reflect capital investments between rate cases and passes all purchased water costs through to customers. On Nov. 3, 2011, the CPUC Division of Ratepayer Advocates proposed a settlement authorizing a return on equity (ROE) of 9.99%, a decline of about 20 basis points. We view a 10% ROE as the industry standard, and expect that the allowed ROE will be approved. Despite the decline in ROE we still view California as mildly supportive because it has the most regulatory mechanisms than any other state. The company will file its next general rate case in mid-2012 for all of the 24 California districts. The new rates will go into affect on Jan. 1, 2014.

Cal Water benefits from a stable and predictable revenue base as residential and business customers account for about 93% of revenues. About 5% of its supply comes from surface water, and the remainder it either purchases or gets from groundwater in equal percentages.

For the 12 months ended Sept. 30, 2011, CWSG's financial metrics were weak for the rating, but continue to benefit from the rate case approved in December 2010. Adjusted funds from operations (FFO) to debt coverage improved to about 16% from 14% a year earlier, and FFO interest coverage slightly improved to 3.2x from 3.1x in the same period last year. Leverage of 59% as of Sept. 30, 2011, up from 56%, is high for the rating. Total adjusted debt, including tax-affected pensions and post-retirement obligations, was \$662 million as of Sept. 30, 2011. Standard & Poor's debt equivalent related to pensions and postretirement adjustment remained high at \$115 million.

Liquidity

We view Cal Water's liquidity as strong under our corporate liquidity methodology. For the next 12 months, we expect liquidity sources to exceed uses by roughly 3x. As of Sept. 30, 2011, the company had FFO of \$103 million, about \$45 million cash on hand, and about \$360 million available under its credit lines, which allow for borrowing of up to \$400 million. Cal Water's credit facilities mature in 2016.

Capital requirements include capital spending of about \$130 million, annual dividends of \$25 million, and manageable debt maturities over the next few years. The company will need external financing for a large portion of its capital needs, and the company has an existing \$350 million shelf for debt and equity for the next three years. We believe that Cal Water will maintain its balanced capital structure as it funds the cash flow deficit with debt issues, equity offerings, regulatory surcharges, and rate increases.

Research Update: California Water Service Co. Outlook Revised To Negative On Weak Credit Metrics; Ratings Affirmed

Recovery analysis

We rate Cal Water's senior secured first mortgage bonds (FMB) 'AA-', one notch higher than the corporate credit rating, based on a recovery rating of '1+' under our recovery methodology for regulated utilities. We assign recovery ratings to FMBs issued by U.S. utilities, and this can result in issue ratings being notched above the corporate credit rating on a utility, depending on the corporate credit rating category and the extent of the collateral coverage. We base the investment-grade FMB recovery methodology on the ample historical record of nearly 100% recovery for secured bondholders in utility bankruptcies and our view that the factors that supported those recoveries (the small size of the creditor class and the durable value of utility rate-based assets during and after a reorganization, given the essential service provided and the high replacement cost) will persist.

Under our notching criteria, we consider the limitations of FMB issuance under the utility's indenture relative to the value of the collateral pledged to bondholders, management's stated intentions on future FMB issuance, and the regulatory limitations on bond issuance when assigning issue ratings to utility FMBs. FMB ratings can exceed a utility corporate credit rating by as much as one notch in the 'A' category, two notches in the 'BBB' category, and three notches in speculative-grade categories. Cal Water's collateral coverage of more than 1.5x supports a recovery rating of '1+' and an issue rating of 'AA-', one notch above the corporate credit rating.

Outlook

The negative outlook reflects our view that the company will retain credit metrics that are weak for the 'A+' rating. Although credit metrics are expected to improve from the authorized California rate case and enhanced cost-recovery mechanisms by 2012, we expect such ratios to be weak for the current rating when compared with other 'A+' rated water utilities. We could lower the rating if the company's FFO/debt is sustained at or roughly below 16%. We could revise the outlook to stable if credit metrics improve at a quicker pace as a result of paying off debt.

Related Criteria And Research

- Criteria: Key Credit Factors: Business And Financial Risks In The Investor-Owned Utilities Industry, published Nov. 26, 2008.
- U.S. Regulated Gas And Water Utilities' Credit Quality Remains Stable, Oct. 6, 2011
- Top 10 Investor Questions: U.S. Gas And Water Utilities, Feb. 15, 2011

Ratings List

Ratings Affirmed; Outlook Revised

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California Water Service Co.

Research Update: California Water Service Co. Outlook Revised To Negative On Weak Credit Metrics; Ratings
Affirmed

Corp. credit rating

A+/Negative/--

A+/Stable/--

Senior secured Recovery rating

AA-1+

Complete ratings information is available to subscribers of RatingsDirect on the Global Credit Portal at www.globalcreditportal.com. All ratings affected by this rating action can be found on Standard & Poor's public Web site at www.standardandpoors.com. Use the Ratings search box located in the left column.

STANDARD &POOR'S

Global Credit Portal° RatingsDirect

January 30, 2012

Summary:

Pennsylvania-American Water Co.

Primary Credit Analyst:
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Related Criteria And Research

Summary:

Pennsylvania-American Water Co.

Credit Rating: BBB+/Stable/--

Rationale

The ratings on Pennsylvania-American Water Co. reflect the consolidated credit quality of parent American Water Works Co. Inc. (AWW). Pennsylvania-American accounts for about 20% of AWW's revenues and about 28% of cash flow. Pennsylvania-American Water's favorable regulatory environment, strong services territory, stable, mostly residential customer base, absence of competition, and low operating risk support the utility's stand-alone excellent business risk profile. Pennsylvania-American Water's regulator, the Pennsylvania Public Utilities Commission, allows the addition of capital spending to rate base outside of traditional rate proceedings, rate cases based on a future test year, and a consolidated rate structure.

A favorable competitive position, a diverse and supportive regulatory environment, and a stable, above-average service territory support AWW's excellent business risk profile. AWW's regulatory framework includes reasonably allowed returns on equity and various cost-recovery mechanisms, including incentives for infrastructure improvements. The company's geographic diversity provides it with some market, cash-flow, and regulatory diversification. We view AWW's operating risks associated with its nonregulated operations as fairly low. AWW's aggressive financial profile, elevated capital-spending requirements for infrastructure replacement, increased costs of compliance with water quality standards, and the company's reliance on acquisitions to provide growth partly offset these strengths.

AWW provides regulated water and wastewater services to about 3.3 million customers in 18 states. The company's regulated utility subsidiaries represent about 89% of total revenues, but have provided more than 95% of adjusted EBITDA for the past three years. The company's nonregulated subsidiaries engage in water and wastewater facility management and maintenance, as well as design and construction consulting services related to water and wastewater plants. We view these nonregulated segments as having modest incremental risk for AWW, due to their lack of cash flow contribution and modest expected capital requirements.

A state commission regulates each of AWW's regulated subsidiaries, which supports revenue and cash flow stability. The average allowed return on equity (ROE) in AWW's seven largest jurisdictions, which account for about 80% of consolidated revenues, is about 10%. This is similar to the average allowed ROE in the water sector. In a number of jurisdictions, which represent about 50% of consolidated revenues, the utility recovers replacement capital spending between rate cases up to a stated percentage. The importance of infrastructure surcharge mechanisms has increased, given AWW's capital program of about \$1 billion per year. Certain states also allow for surcharges related to the cost of power, chemicals, and purchased water. For the next few years, we expect AWW to file additional rate cases and request additional recovery mechanisms to cover rising operating costs, capital expenditures, and pension and other postretirement obligations.

The U.S. Environmental Protection Agency believes that infrastructure replacement needs for water systems are significant over the next 20 years. AWW estimates that it will need to spend about \$1 billion annually in each of the next three years for replacement of infrastructure, new facilities to comply with water quality standards, and

Summary: Pennsylvania-American Water Co.

projects to enhance reliability, quality of service, and efficiency. AWW's reliability of supply is high, as the company owns a substantial number of treatment facilities for surface and groundwater treatment, and the majority of supply comes from surface and groundwater. In 2011, surface water provided 65% of the company's water supply, groundwater 28%, and it purchased about 7%.

Consolidated financial metrics are improving. In 2011, regulatory commissions granted AWW about \$118 million of general rate increases in various states, including \$99 million in New Jersey, Pennsylvania, and Arizona. The company asks for rate increases to cover rising operating costs, capital expenditures, and pension and other postretirement obligations.

For the 12 months ended Sept. 30, 2011, AWW's adjusted funds from operations (FFO) totaled \$895 million. FFO to debt was 13.9%, which is acceptable for the rating. Total debt to capital remained around 60% during the same period. Substantially higher capital expenses are significant risks that may prevent adequate improvements to the company's financial profile. Over the next 12 months we expect FFO to improve slightly due to additional rate increases, although a sustained improvement in both consolidated FFO to debt and debt to total capital may not materialize, given the company's financing needs.

In March 2011, AWW announced that it has entered into an agreement to sell to EPCOR Water (USA) its regulated operations in Arizona and New Mexico for an estimated \$470 million. We view the transaction as marginally beneficial to AWW's business and risk profile, albeit not material enough to influence the outlook. AWW will use a portion of the sale proceeds to reduce debt (less than 5% of consolidated debt). Arizona and New Mexico are some of the relatively weaker and smaller states that AWW serves, totaling less than 5% of cash flows. Similarly, in July 2011, AWW announced the sale of its regulated operations in Ohio to Aqua America Inc. for \$120 million and a purchase of Aqua America's regulated operations in New York for about \$70 million. These announcements do not affect AWW's ratings.

Liquidity

The short-term ratings on AWW and AWCC are 'A-2'. We view the company's overall liquidity as adequate. For the upcoming 12 months, we expect liquidity sources to exceed uses by more than 1.2x. Cash sources consist of projected FFO of about \$900 million and revolver availability of \$259 million. As of Sept. 30, 2011 there were no borrowings outstanding on the revolvers. However, we discount the borrowing availability on the revolver by about \$425 million to account for commercial paper and other short-term borrowings and do not give credit to a portion of the credit facility that expires within the next 12 months. Cash uses consist of expected total capital spending of about \$1 billion in 2012, although mandatory and compliance-related expenses are only a fraction of that amount. Other cash uses include dividend distributions of about \$165 million, debt maturities of about \$34 million and pension plan contributions of about \$150 million. Other potential cash uses, such as working capital needs are not significant.

Recovery analysis

We rate Pennsylvania-American Water's first mortgage bonds (FMB) 'A', two notches above the corporate credit rating, based on a recovery rating of '1+' under our recovery methodology for regulated utilities. We assign recovery ratings to FMBs issued by U.S. utilities, and this can result in issue ratings being notched above the corporate credit rating on a utility, depending on the corporate credit rating category and the extent of the collateral coverage.

We base the investment-grade FMB recovery methodology on the ample historical record of nearly 100% recovery for secured-bond holders in utility bankruptcies and our view that the factors that supported those recoveries (the

Summary: Pennsylvania-American Water Co.

small size of the creditor class, and the durable value of utility rate-based assets during and after a reorganization, given the essential service provided and the high replacement cost) will persist. Under our notching criteria, when assigning issue ratings to utility FMBs, we consider the limitations of FMB issuance under the utility's indenture relative to the value of the collateral pledged to bondholders, management's stated intentions on future FMB issuance, and the regulatory limitations on bond issuance.

FMB ratings can exceed a utility's corporate credit rating by as much as one notch in the 'A' category, two notches in the 'BBB' category, and three notches in speculative-grade categories. (See "Changes To Collateral Coverage Requirements For '1+' Recovery Ratings On U.S. Utility First Mortgage Bonds," published Sept. 6, 2007.)
Pennsylvania-American Water's collateral coverage of greater than 1.5x supports a recovery rating of '1+' and an issue rating of 'A', two notches above the corporate credit rating.

Outlook

The outlook on Pennsylvania-American Water reflects the outlook on AWW. The stable outlook on AWW and AWCC reflects our expectation that the company will receive supportive rate increases over the next three years to address rising costs and increased capital spending plans. The current rating can accommodate some acquisitions, assuming management funds the acquisitions in a balanced manner. We could lower the rating if financial performance stalls or deteriorates, which could result from substantial debt-financing of capital expenditures or acquisitions, such that FFO to debt falls below 9% and debt to capital rises above 65%. We could also lower the rating if rate increases or allowed returns are set at levels substantially below the requested figures, and if the company takes significantly longer to resolve rate case filings than we currently expect. We could raise the rating if higher-than-expected rate increases or favorable cost recovery mechanisms allow for a sustained adjusted FFO to total debt ratio of 12% to 14% and adjusted leverage between 50% and 55%.

Related Criteria And Research

- Top 10 Investor Questions: U.S. Investor-Owned Water Companies, published Jan. 25, 2010
- Industry Report Card: U.S. Investor-Owned Water Utilities Continue to Display Rating Stability, published Jan.
 12, 2010
- Criteria: Key Credit Factors: Business And Financial Risks In the Investor-Owned Utilities Industry, published Nov. 26, 2008

STANDARD &POOR'S

Global Credit Portal®

January 30, 2012

Summary:

New Jersey-American Water Co.

Primary Credit Analyst:
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William Ferara, New York (1) 212-438-1776; bill_ferara@standardandpoors.com

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Rationale

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Related Criteria And Research

Summary:

New Jersey-American Water Co.

Credit Rating: BBB+/Stable/--

Rationale

The ratings on New Jersey-American Water Co. reflect the consolidated credit quality of parent American Water Works Co. Inc. (AWW). New Jersey-American accounts for 25% of AWW's revenues and about 30% of cash flow. New Jersey-American's favorable regulatory environment, strong services territory, stable and mostly residential customer base, absence of competition, and low operating risk support the utility's stand-alone excellent business risk profile. New Jersey-American Water's regulator, the New Jersey Board of Public Utilities, reviews rate cases based on a historical test year with adjustments, and allows a consolidated rate structure and recovery of purchased water costs. In addition, the company has proposed the addition of infrastructure capital spending to rate base outside of traditional rate proceedings in its current rate filing.

A favorable competitive position, a diverse and supportive regulatory environment, and a stable, above-average service territory support AWW's excellent business risk profile. AWW's regulatory framework includes reasonably allowed returns on equity and various cost-recovery mechanisms, including incentives for infrastructure improvements. The company's geographic diversity provides it with some market, cash-flow, and regulatory diversification. We view AWW's operating risks associated with its nonregulated operations as fairly low. AWW's aggressive financial profile, elevated capital-spending requirements for infrastructure replacement, increased costs of compliance with water quality standards, and the company's reliance on acquisitions to provide growth partly offset these strengths.

AWW provides regulated water and wastewater services to about 3.3 million customers in 18 states. The company's regulated utility subsidiaries represent about 89% of total revenues, but have provided more than 95% of adjusted EBITDA for the past three years. The company's nonregulated subsidiaries engage in water and wastewater facility management and maintenance, as well as design and construction consulting services related to water and wastewater plants. We view these nonregulated segments as having modest incremental risk for AWW, due to their lack of cash flow contribution and modest expected capital requirements.

A state commission regulates each of AWW's regulated subsidiaries, which supports revenue and cash flow stability. The average allowed return on equity (ROE) in AWW's seven largest jurisdictions, which account for about 80% of consolidated revenues, is about 10%. This is similar to the average allowed ROE in the water sector. In a number of jurisdictions, which represent about 50% of consolidated revenues, the utility recovers replacement capital spending between rate cases up to a stated percentage. The importance of infrastructure surcharge mechanisms has increased, given AWW's capital program of about \$1 billion per year. Certain states also allow for surcharges related to the cost of power, chemicals, and purchased water. For the next few years, we expect AWW to file additional rate cases and request additional recovery mechanisms to cover rising operating costs, capital expenditures, and pension and other postretirement obligations.

The U.S. Environmental Protection Agency believes that infrastructure replacement needs for water systems are significant over the next 20 years. AWW estimates that it will need to spend about \$1 billion annually in each of the

Summary: New Jersey-American Water Co.

next three years for replacement of infrastructure, new facilities to comply with water quality standards, and projects to enhance reliability, quality of service, and efficiency. AWW's reliability of supply is high, as the company owns a substantial number of treatment facilities for surface and groundwater treatment, and the majority of supply comes from surface and groundwater. In 2011, surface water provided 65% of the company's water supply, groundwater 28%, and it purchased about 7%.

Consolidated financial metrics are improving. In 2011, regulatory commissions granted AWW about \$118 million of general rate increases in various states including \$99 million in New Jersey, Pennsylvania, and Arizona; the company asks for rate increases to cover rising operating costs, capital expenditures, and pension and other postretirement obligations.

For the 12 months ended Sept. 30, 2011, AWW's adjusted funds from operations (FFO) totaled \$895 million. FFO to debt was 13.9%, which is acceptable for the rating. Total debt to capital remained around 60% during the same period. Substantially higher capital expenses are significant risks that may prevent adequate improvements to the company's financial profile. Over the next 12 months we expect FFO to improve slightly due to additional rate increases, although a sustained improvement in both consolidated FFO to debt and debt to total capital may not materialize, given the company's financing needs.

In March 2011, AWW announced that it has entered into an agreement to sell to EPCOR Water (USA) its regulated operations in Arizona and New Mexico for an estimated \$470 million. We view the transaction as marginally beneficial to AWW's business and risk profile, albeit not material enough to influence the outlook. AWW will use a portion of the sale proceeds to reduce debt (less than 5% of consolidated debt). Arizona and New Mexico are some of the relatively weaker and smaller states that AWW serves, totaling less than 5% of cash flows. Similarly, in July 2011, AWW announced the sale of its regulated operations in Ohio to Aqua America Inc. for \$120 million and a purchase of Aqua America's regulated operations in New York for about \$70 million. These announcements do not affect AWW's ratings.

Liquidity

The short-term ratings on AWW and AWCC are 'A-2'. We view the company's overall liquidity as adequate. For the upcoming 12 months, we expect liquidity sources to exceed uses by more than 1.2x. Cash sources consist of projected FFO of about \$900 million and revolver availability of \$259 million. As of Sept. 30, 2011 there were no borrowings outstanding on the revolvers. However, we discount the borrowing availability on the revolver by about \$425 million to account for commercial paper and other short-term borrowings and do not give credit to a portion of the credit facility that expires within the next 12 months. Cash uses consist of expected total capital spending of about \$1 billion in 2012, although mandatory and compliance-related expenses are only a fraction of that amount. Other cash uses include dividend distributions of about \$165 million, debt maturities of about \$34 million and pension plan contributions of about \$150 million. Other potential cash uses, such as working capital needs are not significant.

Recovery analysis

We rate New Jersey-American Water's first mortgage bonds (FMB) 'A', two notches above the corporate credit rating, based on a recovery rating of '1+' under our recovery methodology for regulated utilities. We assign recovery ratings to FMBs issued by U.S. utilities, and this can result in issue ratings being notched above the corporate credit rating on a utility, depending on the corporate credit rating category and the extent of the collateral coverage.

We base the investment-grade FMB recovery methodology on the ample historical record of nearly 100% recovery

Summary: New Jersey-American Water Co.

for secured-bond holders in utility bankruptcies and our view that the factors that supported those recoveries (the small size of the creditor class, and the durable value of utility rate-based assets during and after a reorganization, given the essential service provided and the high replacement cost) will persist. Under our notching criteria, when assigning issue ratings to utility FMBs, we consider the limitations of FMB issuance under the utility's indenture relative to the value of the collateral pledged to bondholders, management's stated intentions on future FMB issuance, and the regulatory limitations on bond issuance.

FMB ratings can exceed a utility's corporate credit rating by as much as one notch in the 'A' category, two notches in the 'BBB' category, and three notches in speculative-grade categories. (See "Changes To Collateral Coverage Requirements For '1+' Recovery Ratings On U.S. Utility First Mortgage Bonds," published Sept. 6, 2007.) New Jersey-American Water's collateral coverage of greater than 1.5x supports a recovery rating of '1+' and an issue rating of 'A', two notches above the corporate credit rating.

Outlook

The outlook on New Jersey-American Water reflects the outlook on AWW. The stable outlook on AWW and AWCC reflects our expectation that the company will receive supportive rate increases over the next three years to address rising costs and increased capital spending plans. The current rating can accommodate some acquisitions, assuming management funds the acquisitions in a balanced manner. We could lower the rating if financial performance stalls or deteriorates, which could result from substantial debt-financing of capital expenditures or acquisitions, such that FFO to debt falls below 9% and debt to capital rises above 65%. We could also lower the rating if rate increases or allowed returns are set at levels substantially below the requested figures, and if the company takes significantly longer to resolve rate case filings than we currently expect. We could raise the rating if higher-than-expected rate increases or favorable cost recovery mechanisms allow for a sustained adjusted FFO to total debt ratio of 12% to 14% and adjusted leverage between 50% and 55%.

Related Criteria And Research

- Top 10 Investor Questions: U.S. Investor-Owned Water Companies, published Jan. 25, 2010
- Industry Report Card: U.S. Investor-Owned Water Utilities Continue to Display Rating Stability, published Jan. 12, 2010
- Criteria: Key Credit Factors: Business And Financial Risks In the Investor-Owned Utilities Industry, published Nov. 26, 2008

STANDARD &POOR'S

Global Credit Portal RatingsDirect®

January 30, 2012

Summary:

Golden State Water Co.

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Rationale

Outlook

Related Criteria And Research

Summary: Golden State Water Co.

Credit Rating: A+/Stable/--

Rationale

Standard & Poor's Ratings Services' ratings on Golden State Water Co. (GSWC; A+/Stable/--) reflect the consolidated credit quality of parent American States Water Co. (AWR; A+/Stable/--). GSWC provides more than 80% of consolidated revenues. AWR's other subsidiary is American States Utility Services Inc. (ASUS; not rated), which provides unregulated water and wastewater services to third parties.

GSWC's "excellent" (as our criteria define the term) business risk profile is characterized by a supportive regulatory environment; the absence of competition; strong, largely residential markets; and relatively low operating risk. Increased capital requirements associated with infrastructure-replacement needs, compliance with water-quality standards, and limited control of future water supply somewhat temper company strengths.

The California Public Utilities Commission (CPUC) regulates GSWC. We view California as having a constructive regulatory environment for water companies. The CPUC has granted a number of supportive cost-recovery mechanisms that allow water utilities to generate stable cash flows and recover costs with minimal regulatory lag. Some of these supportive mechanisms include the decoupling of throughput from revenues and recovery of costs associated with reduced usage due to conservation. In addition, the CPUC allows the utility to recover its capital investments between rate cases and passes all purchased-water costs through to customers. We expect regulatory conditions in California to become somewhat stricter as a result of the 2010 pipeline explosion in San Bruno, Calif. On Nov. 2, 2011, the CPUC Division of Ratepayer Advocates (DRA) proposed a settlement authorizing a return on equity (ROE) of 9.99%, slightly below the 10% industry standard. We expect the final approved amount to be finalized by first-quarter 2012. On July 21, 2011, GSWC filed a general rate case for rate increases of approximately \$31.3 million in annual revenues. The proposed rate increases for 2014 are \$9.1 million, and the 2015 proposed rate increases amount to \$11.5 million. These rates will be effective in January 2013.

We view the water supply situation that the company must deal with in California as challenging. California struggles with droughts and a lack of water supply as two of the company's wholesale water suppliers have restricted the amount of water available to the company. AWR purchases 40% to 45% of its water supplies, which is a similar amount to other rated water utilities in California, such as California Water Service Co. (A+/Negative/--) and San Jose Water Co. (A/Stable/--). GSWC implemented a plan to reduce consumption by 10% through voluntary actions in service areas that the Metropolitan Water District of Southern California supplies, based on the district's Water Supply Allocation Plan. The company met the required reduction for the 2010 water year.

Bear Valley Electric Service (BVES; not rated), a division of GSWC, provides electric services to the city of Big Bear Lake and adjoining areas. This segment contributes less than 10% of consolidated EBITDA. Given its size and relative contribution to EBITDA, the operations at BVES do not materially affect AWR's credit quality.

The company's nonregulated segment, ASUS, provides operations, maintenance, and construction services to water and wastewater facilities. Despite tight margins and low cash flow, these nonregulated operations pose limited

Summary: Golden State Water Co.

incremental risks to the company's consolidated credit profile. In addition to the complementary nature of the utility's nonregulated segment to its regulated operations, the fact that the contracts use a cost-of-service structure, shielding AWR from the majority of costs, mitigates risks. We expect AWR's nonregulated operations, which represent about 10% of operating income, to remain a relatively small cash flow contributor.

AWR's "intermediate" (as our criteria define the term) risk financial profile is characterized by cash flow and leverage ratios that are adequate for the rating. We expect adjusted metrics to remain somewhat stable, with funds from operations (FFO) to debt above 25% and debt to capital below 55%, with continued rate relief for capital spending and pension and postretirement obligations. As of Sept. 30, 2011, AWR had total adjusted debt of about \$395 million, with adjusted debt to capital of 49%. For the 12 months ended Sept. 30, 2011, adjusted (FFO) totaled about \$129 million, with adjusted FFO to interest coverage level of 5.8x, and adjusted FFO to total debt of 33%.

Liquidity

We view AWR's overall liquidity as "strong" (as our criteria define the term). For the next 12 months we expect liquidity sources to exceed uses by about 2x. Cash sources consist of projected FFO of about \$120 million, revolver availability of \$83 million, and cash of about \$5 million. Cash sources consist of projected FFO of about \$120 million, revolver availability of \$83 million, and cash of about \$5 million. Cash uses consist of expected capital spending of about \$80 million and distributions of about \$20 million. Other potential cash uses, such as debt maturities and working capital needs, are not significant.

In absolute dollars, we expect cash sources to exceed uses by roughly \$105 million over the next 12 months. This difference will remain positive even if EBITDA falls by more than 30%, which we would not anticipate given the company's regulated cash flows. In terms of other qualitative factors, we believe that the company has considerable access to the capital markets through state and local development funds and equity markets. Similar to most water companies, we don't expect AWR's FFO to sufficiently cover its cash requirements in the near-term.

Outlook

The stable outlooks on AWR and GSWC reflect our expectation that the regulatory environment in California will continue to be supportive and financial metrics will remain in line with the rating. We expect the company to continue to raise capital in a balanced manner to address rising costs and increased capital spending plans. The current rating can accommodate some acquisitions, assuming management funds the acquisitions in a balanced manner. We could lower the rating if financial performance stalls or deteriorates, which could result from substantial debt financing of capital spending or acquisitions, such that FFO to debt falls below 20% and debt to capital rises above 55% for a sustained period. We do not expect to raise the ratings in the near term.

Related Criteria And Research

Key Credit Factors: Business And Financial Risks In The Investor-Owned Utilities Industry, Nov. 26, 2008

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The McGraw Hill Companies

STANDARD &POOR'S

Global Credit Portal° RaingsDiect

Summary:

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Rationale

Outlook

Related Criteria And Research

Summary:

Aqua Pennsylvania Inc.

Credit Rating: A+/Stable/--

Rationale

The ratings on water utility Aqua Pennsylvania Inc. reflect the consolidated credit quality of its parent company, Aqua America Inc. (unrated). Aqua Pennsylvania accounts for more than one-half of consolidated Aqua America's revenues and cash flow.

Aqua Pennsylvania's excellent business risk profile reflects a low-risk monopoly water distribution business; a supportive regulatory environment with favorable cost-recovery mechanisms that enhance cash flow predictability; a large, stable residential and commercial customer base that provides a stable revenue base; and solid operations in which purchased water accounts for only about 10% of water sales. The company's elevated capital spending requirements for infrastructure replacement, increasing costs of compliance with water quality standards, and a highly acquisitive growth strategy somewhat temper the company's strengths. We view the financial risk profile as intermediate, reflecting stable but weak cash flow metrics, high debt leverage, and solid access to the capital markets.

The Pennsylvania Public Utility Commission (PPUC) provides Aqua Pennsylvania with favorable cost-recovery mechanisms, including the addition of capital spending to rates outside the traditional rate proceedings, inclusion of certain expected expenditures in determining rates, and a consolidated rate structure. During 2010, 24 rate cases worth about \$50 million were processed across several of Aqua America's subsidiaries. A number of rate cases continue to be in progress. For 2011, we expect rate cases worth about \$40 million to be processed.

Timely rate relief and balanced financing of its growth strategy support Aqua Pennsylvania's intermediate financial profile, which we view as appropriate for the rating, but consolidated financial metrics are modestly weaker than other 'A+' rated water companies. As of June 30, 2011, Aqua America had total debt, including tax-effected pension and other post-employment benefits and operating leases, of about \$1.78 billion, with total debt to capital of about 60%. Aqua America reported funds from operations (FFO) of \$362 million and FFO to debt of 20.4%. As of June 30, 2011, Aqua Pennsylvania had total adjusted debt of \$1.04 billion and FFO to total debt of 23.8%. Over the intermediate term, we expect financial performance to approximate current levels for both Aqua America and Aqua Pennsylvania, supported by additional rate increases and existing recovery mechanisms.

Aqua America recently entered into a joint venture with Penn Virginia Resource Partners L.P. (PVR, rated 'BB-/Stable/--') to construct a 12-inch pipeline to provide fresh water to PVR's gas-gathering systems in Lycoming County, Pa. We believe that this project fulfils a requirement to provide water in the Marcellus Shale region in an efficient way and could provide Aqua with an opportunity to increase its nonregulated cash flows, which are currently less than 1% of total EBITDA.

Liquidity

We consider Aqua America's consolidated liquidity to be adequate under Standard & Poor's corporate liquidity methodology. Projected sources of liquidity (cash, FFO, and credit facility availability) exceed projected uses

Summary: Aqua Pennsylvania Inc.

(maintenance and significant discretionary capital spending, dividends, and manageable debt maturities) by about 1.5x over the next 12 months. We base this calculation on a scenario where the company has no access the capital markets, and excludes any uncommitted facilities. (see "Methodology And Assumptions: Liquidity Descriptors For Global Corporate Issuers," published Sept. 28, 2011) Over the next 12 months, we expect Aqua America's reported cash from operations to be in the \$340 million to \$370 million range, in line with recent growth. Other sources of funds also include minimal cash from expected rate cases in 2011 and some borrowing ability on the revolving credit facility. Uses of cash include capital spending that we expect to be in the \$300 million to \$350 million range, although we consider only about one-third of it is mandatory expenditure. Debt maturities of about \$28 million, and expected dividends of about \$83 million, in line with increases over the past few years, are other significant uses of capital.

Aqua Pennsylvania issued about \$143 million of debt in October 2010, a portion of which it will likely use to refinance existing debt. The company will deposit proceeds from the incremental debt in a restricted account and use it to fund capital spending over the next few years. These funds, in addition to infrastructure replacement surcharges, support spending on discretionary projects.

There is also significant covenant headroom under its debt agreements. With total debt to capital (as defined) of 58% as of June 30, 2011, compared with the requirement to maintain leverage below 62%, and interest coverage (as defined) of 3.6x compared with the minimum level of 1.8x, the company is comfortably in compliance with its financial covenants.

Recovery analysis

We rate Aqua Pennsylvania's first mortgage bonds (FMB) 'AA-', one notch higher than the corporate credit rating, based on a recovery rating of '1+' under our recovery methodology for regulated utilities. We assign recovery ratings to FMBs issued by U.S. utilities, and this can result in issue ratings being notched above the corporate credit rating on a utility, depending on the corporate credit rating category and the extent of the collateral coverage. We base the investment-grade FMB recovery methodology on the ample historical record of nearly 100% recovery for secured-bond holders in utility bankruptcies and our view that the factors that supported those recoveries (the small size of the creditor class, and the durable value of utility rate-based assets during and after a reorganization, given the essential service provided and the high replacement cost) will persist. Under our notching criteria, when assigning issue ratings to utility FMBs, we consider the limitations of FMB issuance under the utility's indenture relative to the value of the collateral pledged to bondholders, management's stated intentions on future FMB issuance, and the regulatory limitations on bond issuance. FMB ratings can exceed a utility's corporate credit rating by as much as one notch in the 'A' category, two notches in the 'BBB' category, and three notches in speculative-grade categories. (See "Changes To Collateral Coverage Requirements For '1+' Recovery Ratings On U.S. Utility First Mortgage Bonds," published Sept. 6, 2007.) Aqua Pennsylvania's collateral coverage of greater than 1.5x supports a recovery rating of '1+' and an issue rating of 'AA-', one notch higher than the corporate credit rating.

Outlook

The stable outlook reflects Standard & Poor's expectation of adequate and timely rate relief, management of the company's growth strategy, and maintenance of an appropriate financial risk profile. We could lower the rating if the regulatory environment in Pennsylvania takes an unfavorable shift or the company increases debt to finance

Summary: Aqua Pennsylvania Inc.

acquisitions or capital spending, resulting in consolidated FFO to debt consistently below the 17% to 18% range and leverage above 60%. Although less likely, we could raise the rating if regulators provide significant rate increases and above-average returns on equity that result in Aqua America's generating cash flow that is materially stronger than we expect, with FFO to debt of at least 25% and leverage below 55%.

Related Criteria And Research

Criteria: Key Credit Factors: Business And Financial Risks In the Investor-Owned Utilities Industry, Nov. 26, 2008

STANDARD &POOR'S

Global Credit Portal

January 30, 2012

Summary:

United Waterworks Inc.

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Rationale

Outlook

Related Criteria And Research

Summary:

United Waterworks Inc.

Credit Rating: A-/Stable/--

Rationale

The ratings on Wilmington, Del.-based water supplier United Waterworks Inc. (UWW) and Harrington Park, N.J.-based water supplier United Water New Jersey Inc. (UWNJ) reflect the consolidated credit profile of Harrington Park, N.J.-based parent United Water Resources (UWR; not rated). UWNJ and UWW account for around 90% of UWR's consolidated revenues and 85% of consolidated funds from operations (FFO). Suez Environnement (not rated) indirectly owns UWR through United Water Inc. (not rated).

UWNJ's and UWW's stand-alone business risk profiles are excellent, reflecting a favorable regulatory environment, no retail competition in their service territories, geographic diversity, largely residential markets, and low operating risk. Reliance on Suez Environnement for periodic capital infusions to fund capital-spending requirements for infrastructure replacement and increasing compliance costs with water-quality standards somewhat temper the company's strengths. Even though UWR gets only about 6% of its cash flows from nonregulated operations, we view these nonregulated operations, which consist of managing and maintaining municipal water and wastewater facilities, as having modest incremental risk, due to their low profit-margin volatility and modest expected capital requirements.

State commissions oversee UWR's regulated operations, and supporting revenue and cash flow stability. UWR serves more than two million people across eight states, which mitigates some of the effects of adverse weather patterns and the regulatory climate of any particular state. Many of the company's operations benefit from cost-recovery mechanisms to recover capital spending outside of traditional rate proceedings, rate cases based on a future test year, and a consolidated rate structure. Adding to revenue and cash flow stability, the company's residential and commercial customers provide a vast majority of total revenues.

UWNJ's and UWW's financial risk profile is significant. Financial measures are weak for the significant categorization, but the low cash flow volatility inherent to the water utility operations allow for more aggressive measures. We expect modest customer growth, and regulatory rate case proceedings to benefit cash flow over time. In 2011, various regulated subsidiaries of UWR received rate case increases of more than \$90 million. We expect this figure to be higher in 2012. As of Sept. 30, 2011, the company showed continued improvement in its financial metrics, with FFO to debt of 13.5% and debt to capital of about 59%. We expect financial metrics to remain appropriate for the rating, with consolidated debt to capital of about 60% and FFO to debt of about 11% to 13% over the next three years.

Liquidity

Standard & Poor's bases its view of UWNJ's and UWW's liquidity on the consolidated liquidity of UWR. We view liquidity as adequate, under our corporate liquidity methodology. We expect liquidity sources will exceed projected uses by more than 1.2x during the next 12 months.

The primary sources of liquidity include internally generated cash flow, which we expect to be between \$120 million

Summary: United Waterworks Inc.

and \$140 million and a \$250 million revolving credit facility from Suez Environnement. Suez is an indirect parent of UWR and, given its prior history of capital infusion to UWR, its revenue of about €14 billion, more than €2 billion of EBITDA, and available credit facility of more than €1.8 billion as of Dec. 31, 2010, we believe it will have sufficient funding for the UWR revolver.

In 2012 we expect UWR's annual capital expenditures to increase to between \$150 million and \$200 million although mandatory and compliance-related expenses will be lower. Distribution of about \$25 million and insignificant debt maturities also constitute uses of liquidity. UWR has historically funded its discretionary spending with capital infusions from its parent company, Suez Environnement. Under most scenarios, we would expect this dynamic to continue.

Outlook

The stable outlook reflects our expectation of adequate and timely rate relief and maintenance of the current financial profile. We could lower the ratings if the regulatory environment deteriorates or rate case decisions are significantly lower than those the company has requested, such that the company sustains FFO to debt below 10%. Large debt-financed acquisitions or any discontinuation of Suez Environnement's capital contributions could also lead to lower ratings. Although a positive outlook is unlikely in the near term, it could occur if financial leverage measures materially improve, with FFO to debt increasing to between 18% and 20% and the companies' debt to capital declining to the low-50% area for a sustained period of time.

Related Criteria And Research

Criteria: Key Credit Factors: Business And Financial Risks In the Investor-Owned Utilities Industry, Nov. 26, 2008

STANDARD &POOR'S

Global Credit Portal® RatingsDirect®

December 9, 2011

Summary: San Jose Water Co.

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Rationale

Outlook

Related Criteria And Research

Summary:

San Jose Water Co.

Credit Rating: A/Stable/--

Rationale

Standard & Poor's Ratings Services' ratings on San Jose Water Co. reflect the consolidated credit profile of its unrated parent, SJW Corp. The ratings also reflect our assumption that economic conditions and reduced residential construction will keep customer growth relatively flat in the intermediate term. The utility serves approximately 230,000 customers in the San Jose region in California.

San Jose Water's excellent business risk profile stems from a supportive regulatory environment, a low-risk monopoly water-distribution business, and a strong, predominantly residential and commercial customer base that provides stable revenue. (For more on business risk and financial risk, see "Business Risk/Financial Risk Matrix Expanded," published on May 27, 2009, on RatingsDirect.) Capital requirements associated with infrastructure replacement needs, increasing costs of compliance with water-quality standards, lack of geographic diversity, and limited control of future water supply somewhat temper the strengths.

The California Public Utilities Commission (CPUC) regulates San Jose Water, and has granted a number of supportive cost-recovery mechanisms to allow it to generate stable cash flows and recover costs with minimal regulatory lag. Regulatory mechanisms allow San Jose Water to recover higher costs and lower revenues between rate cases, including purchased water expense, purchased power expense, and pension expense, among others. The CPUC has also allowed San Jose Water to track lost revenue and incurred expenses from conservation efforts through its water-revenue adjustment mechanism. The commission allows for forward-looking test years, which provides for recovery of anticipated infrastructure projects. Regulatory conditions in California have become somewhat stricter as a result of the pipeline explosion in San Bruno, Calif., earlier this year. The CPUC Division of Ratepayer Advocates proposed a settlement authorizing a return on equity (ROE) of 9.99%, a 20 basis point decline and below the 10% industry standard. The final approved amount is expected to be finalized by first-quarter 2012. San Jose Water has approved rate increases in 2011 and 2012 of \$7.3 million and \$11.1 million, respectively. We expect the company to file its next rate case in California in January 2012 for rates effective Jan. 1, 2013. The utility is expected to include a full water revenue adjustment mechanism and modified cost balance account in the next general rate case to offset conservation.

San Jose Water benefits from better-than-average demographics in its markets. Residential and business customers account for about 92% of revenues, providing a stable and predictable revenue base. The company purchases about 50% of its water supply and receives 40% from groundwater. We believe that infrastructure improvement and replacement will allow the company to treat more surface water in the future, which could reduce its reliance on the Santa Clara Valley Water District.

We consider San Jose Water to have an intermediate financial risk profile. For the 12 months ended Sep. 30, 2011, credit metrics at SJW Corp. were adequate for the rating, with funds from operations (FFO) to adjusted debt coverage of about 16% and FFO interest coverage of 3.9x. SJW had total adjusted debt of about \$390 million, and a high debt to capital ratio of 60%. We expect the FFO to debt ratio to increase to remain in the 15%-18% range.

Summary: San Jose Water Co.

and the debt to capital ratio should be 50%-55% in the long term, which is in line with the rating, as a result of the recently approved rate requests. However, as is the case for most water companies, San Jose Water's cash from operations is not likely to cover the company's various cash requirements sufficiently. It will need external financing to fund its capital needs through 2013, which include high capital spending to upgrade a water-treatment facility and to replace infrastructure. We expect SJW to maintain its balanced capital structure as it funds the cash flow deficit with debt issues, equity offerings, regulatory surcharges, and rate increases.

Liquidity

Due to the potential cash flow movement within the corporate structure, we analyze San Jose Water's liquidity position on a consolidated basis. Under our corporate liquidity methodology, we consider San Jose Water's liquidity to be adequate. For the upcoming 12 months, we expect liquidity sources to exceed uses by roughly 1.2x. Cash sources consist of projected FFO of roughly \$60 million during the next 12 months, and \$43 million of cash as of Sept. 30, 2011. We expect uses during the next 12 months to include capital expenditures of \$70 million and dividends of \$15 million. If cash flows were to decline, San Jose Water could reduce capital spending on its discretionary capital projects. The \$85 million in credit facilities will mature on June 1, 2012, as such the liquidity will be constrained if these are not renewed in the near-term.

Outlook

The stable outlook on the rating reflects our expectations for continued supportive regulation in California and on solid consolidated financial metrics. We expect credit metrics to remain appropriate for the 'A' category, with an FFO to debt ratio of 15%-18%. We could lower the rating if there is an unfavorable shift in regulatory conditions or if credit metrics deteriorate such that the FFO to debt ratio remains sustained at less than 15%. Although we do not expect to do so in the near term, we could raise the rating if rate increases and returns on equity are sufficient to achieve a consistent FFO to debt ratio of 20% or higher and a debt to capital ratio of less than 50% for a sustained period.

Related Criteria And Research

Key Credit Factors: Business And Financial Risks In the Investor-Owned Utilities Industry, Nov. 26, 2008

STANDARD &POOR'S

Global Credit Portal° RaingsDirect®

December 7, 2011

Summary:

The Baton Rouge Water Works Co.

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Rationale

Outlook

Related Criteria And Research

Summary:

The Baton Rouge Water Works Co.

Credit Rating: A+/Stable/-

Rationale

Standard & Poor's Ratings Services' ratings on regulated water utility Baton Rouge Water Works Co. (BRWW) reflect its excellent business profile and intermediate financial risk profile. BRWW's excellent business risk profile reflects a low-risk monopoly water distribution business, a supportive regulatory environment with favorable cost-recovery mechanisms that enhance cash flow predictability, a mostly residential and commercial customer base that provides stable revenues, and solid operations. Tempering these strengths are the company's small size and geographic concentration. Utility Holdings Inc. (UHI) owns about 84% of BRWW, with a number of investors across the country owning the rest.

On a consolidated basis, UHI's net operating income was about \$9.7 million as of Dec. 31, 2010, with BRWW contributing about 83% and Louisiana Water Co. contributing the remaining percentage. BRWW's cash flows come from four entities, and its own regulated operations contribute about 60% of cash flows. Its unrated subsidiaries Parish Water Co. (which has its own subsidiary, Ascension Water Co.) and Utility Properties Inc. contribute the remaining percentage.

The Louisiana Public Service Commission's (LPSC) regulatory framework is key to revenue stability. BRWW has a good relationship with the commission, which has awarded it significant rate case increases. Recent rate cases have averaged more than 90% of requested amounts. In the most recent rate case, in April 2009, the LPSC approved a \$2.5 million increase in revenues (about 85% of the company's request) and maintained the allowed return on equity of 12.5%. In Parish Water's rate case that was settled in April 2010, the LPSC approved a revenue increase of \$1.3 million (about 9.4%). The commission approved a 9.8% return on rate base. Ascension Water, which serves Ascension Parish and provides about 10% of consolidated operating income, received an increase of \$1.4 million in January 2008 (100% of the company's request). The companies requested the rate increases to address rising operating costs and capital spending to improve infrastructure.

BRWW obtains its water supply from nine separate aquifers, which are of superior quality and are more than adequate to meet customer needs. The company has maintained its infrastructure to meet customer demand, including building a water transmission line to the high-growth areas of Ascension Parish and southern Baton Rouge. In addition, the company's water-treatment costs are among the lowest of its peers', which enables it to maintain strong cash flows even though its tariffs are below the state average. Louisiana Water operates six water distribution systems in six towns near Baton Rouge. The quality of water from its sources is not as good and requires some treatment.

BRWW benefits from good markets and solid operations. However, the company's small size and geographic concentration somewhat moderate its strengths. Residential customers account for about 95% of revenues, providing a predictable revenue base. Over the past several years, the company has benefitted from annual double-digit growth in Ascension Parish, one of the fastest-growing communities in the region. Given the concentration of the company's operations in Louisiana, the company is strongly affected by the state's regulatory

Summary: The Baton Rouge Water Works Co.

framework and local weather conditions. Population growth, which benefitted significantly from the dislocation of New Orleans residents following the 2005 hurricanes, has started to moderate over time as dislocated residents may be looking to return to New Orleans. Baton Rouge's reliance on cyclical industries makes it slightly susceptible to the general economic decline. We expect customer growth over the next few years to more closely reflect the nationwide economic slowdown.

We consider both the consolidated and stand-alone credit profiles of UHI and BRWW when assessing the ratings on BRWW. BRWW's intermediate financial risk profile reflects our belief that the utility will be able to maintain robust and reliable cash flows and a conservative capital structure. BRWW maintains between 40% and 50% of balance sheet debt in cash and marketable securities, which strengthens its financial profile. As of Sept. 30, 2011, BRWW had total debt (including capitalized operating leases and tax-effected pension and postretirement obligations) of about \$51 million and adjusted funds from operations (FFO) of \$17.6 million, with adjusted debt to capital at about 43%, FFO interest coverage of 6.5x, and adjusted FFO to total debt of about 34%. We expect these credit metrics to remain around these figures in 2012. Credit metrics at the UHI are considerably weaker, with FFO to debt of about 22.8% and debt to capital of 57% after our adjustments.

Liquidity

Under Standard & Poor's corporate liquidity methodology, we consider BRWW's liquidity to be strong. We project sources of liquidity (cash on hand and FFO) to exceed uses (relatively modest maintenance and discretionary capital spending, dividends, and minimal debt maturities) by more than 1.7x over the next 12 months. (For more on liquidity, see "Methodology And Assumptions: Liquidity Descriptors for Corporate Issuers", published Sept. 28, 2011, on RatingsDirect. As of Sept. 30, 2011, BRWW reported cash from operations of \$17.6 million. Over the next few years, we expect cash flows to benefit from modest customer growth. Although BRWW does not maintain access to a revolving credit facility, it generally maintains cash balances of around \$20 million. As of Sept. 30, 2011, BRWW had about \$25 million of cash and marketable securities. We expect capital spending, which has been between \$11 million and \$15 million over the past several years, and distributions of around \$7 million per year, to continue at these levels, which approximate the company's internal cash flow. On a consolidated basis, the liquidity at UHI is slightly weaker, but sources exceed uses by more than 1.5x as of Sept. 30, 2011, which we consider to be in the strong category.

Recovery analysis

We rate BRWW's first mortgage bonds (FMB) 'AA-', one notch higher than the corporate credit rating, based on a recovery rating of '1+' under our recovery methodology for regulated utilities.

We assign recovery ratings to FMBs issued by U.S. utilities, and this can result in issue ratings that are notched above the corporate credit rating on a utility, depending on the corporate credit rating category and the extent of the collateral coverage. We base the investment-grade FMB recovery methodology on the ample historical record of nearly 100% recovery for secured-bond holders in utility bankruptcies and on our view that the factors that supported those recoveries (the small size of the creditor class, and the durable value of utility rate-based assets during and after a reorganization, given the essential service provided and the high replacement cost) will persist. Under our notching criteria, when assigning issue ratings to utility FMBs, we consider the limitations of FMB issuance under the utility's indenture relative to the value of the collateral pledged to bondholders, management's stated intentions on future FMB issuance, and the regulatory limitations on bond issuance. FMB ratings can exceed a utility's corporate credit rating by as much as one notch in the 'A' category, two notches in the 'BBB' category, and three notches in speculative-grade categories. (See "Changes To Collateral Coverage Requirements For '1+'

Summary: The Baton Rouge Water Works Co.

Recovery Ratings On U.S. Utility First Mortgage Bonds," published Sept. 6, 2007.) BRWW's collateral coverage of more than 1.5x supports a recovery rating of '1+' and an issue rating of 'AA-', one notch above the corporate credit rating.

Outlook

The stable outlook reflects Standard & Poor's expectation of supportive regulation and stable financial performance that approximates current levels. We could lower the rating if infrastructure investments require significant capital spending or unfavorable weather significantly reduces water consumption levels such that FFO debt coverage falls below 25% at BRWW or below 20% at UHI for a sustained period. We could also lower the rating if UHI's debt leverage increases or if BRWW changes its policy of maintaining a large cash balance. We could raise the rating if the company's asset diversity improves or its size increases, which we do not expect to occur in the near term.

Related Criteria And Research

- Business Risk/Financial Risk Matrix Expanded, May 27, 2009
- Changes To Collateral Coverage Requirements For '1+' Recovery Ratings On U.S. Utility First Mortgage Bonds, Sept. 6, 2007

PMA-9

Prepared Testimony of

Robert F. Powelson Chairman Pennsylvania Public Utility Commission

before the

Pennsylvania House of Representatives Consumer Affairs Committee

April 28, 2011



Pennsylvania Public Utility Commission 400 North Street Harrisburg, Pennsylvania 17120 Telephone (717) 787-4301 http://www.puc.state.pa.us Chairman Godshall, Chairman Preston, members of the Committee, I appreciate the opportunity to speak with you today about House Bill 1294. This legislation will give the Pennsylvania Public Utility Commission (PUC) the authority to allow utilities to recover in a timelier manner the capital costs associated with investments in infrastructure. The bill also allows water and wastewater utilities to combine the revenue requirements used to determine rates. For the reasons discussed below, the PUC supports the passage of this legislation.

While the ratemaking model currently employed at the PUC has worked relatively well for many decades, it does not adequately address the challenges we face today or going forward. In Pennsylvania, and across the nation, much of our utility infrastructure is over 70 years old. Replacing this infrastructure—from gas pipelines, to electric transmission lines, to wastewater collection systems—is extremely expensive. However, for both safety and reliability reasons, many of Pennsylvania's aging pipes and wires should soon be replaced. While many utilities are accelerating their infrastructure replacement schedules to address this challenge, replacing Pennsylvania's aging utility infrastructure remains a massive and expensive undertaking.

Even though utilities are investing significant amounts of money to replace and repair their physical infrastructure, the existing ratemaking methodology used by the PUC does not allow utilities to recover these costs in a timely manner. Utility ratemaking is founded upon the relationship between revenues, operating expenses, and investment (or rate base). Historically, utility companies counted on revenues increasing and

expenses decreasing as they became more efficient. Utilities could also assume that their rate base would grow, at least in partial relationship, to revenues. Times are different today.

Utilities are seeing their revenues decrease. Energy efficiency measures such as Act 129, while achieving their stated goals, are encouraging less consumption per customer, which means less revenue for utilities. With respect to expenses, while there is always room for increased efficiencies and innovation, most utilities have already taken numerous steps to reduce expenses and increase productivity. At the same time, utilities have seen rate base increase because infrastructure replacement generally does not generate a single dollar of new revenue. Thus, while utilities' revenues are decreasing, their expenses and rate base are increasing.

In order to ensure the continued safety and reliability of our utility system, it is essential that the PUC and the Legislature help Pennsylvania's utilities resolve the problem of aging infrastructure in our state. House Bill 1294 will do this by allowing the PUC to consider new ratemaking methods that will better address the challenges the utility industry faces today. By reducing regulatory lag and incenting investment in infrastructure, this legislation will ensure that the utility infrastructure in the Commonwealth will be updated in an expeditious manner, resulting in a safer and more reliable utility system.

One of the alternative ratemaking methods House Bill 1294 would allow the PUC to consider is the use of a fully projected future test year. Traditionally, when a utility

wants to increase its rates, it files a rate case with the PUC using a test year comprising of the utility's revenues and expenses during the 12-month period immediately following an historic test year. Ideally, a test year should reflect as closely as possible the conditions the utility will face when the rates being established will be in effect. However, the test year the PUC currently uses almost always results in "regulatory lag" because, by the time the rates go into effect at the conclusion of the rate case, the information relied upon from the test year is outdated.

House Bill 1294 would instead allow utilities to use, with the PUC's approval, a fully projected future test year. Under this approach, utilities' rates and costs will match the first year new rates are in effect. This will significantly reduce regulatory lag and will encourage less frequent base rate case filings, saving utilities and customers millions in rate case expenses.

Another alternative ratemaking method that House Bill 1294 would allow the PUC to consider is an automatic adjustment charge that enables utilities to recover certain infrastructure improvement costs between base rate cases through a surcharge on customers' bills. This surcharge is often called a Distribution System Improvement Charge (DSIC) by the water and natural gas industry, and a Collection System Infrastructure Charge (CSIC) by the wastewater industry. These surcharges ensure the least possible rate impact on customers by spreading out over time the cost of replacing and enhancing Pennsylvania's utility infrastructure.

Pennsylvania implemented the DSIC for the water industry in 1997. Over the past fourteen years, the DSIC has had substantial impact on accelerating water infrastructure replacement in Pennsylvania. Prior to the DSIC, Pennsylvania American Water Company (PAWC) projected that it would take about 225 years to upgrade its entire system. With DSIC, the projected amount of time for upgrades to the PAWC distribution system is about 117 years – a timeframe that more closely matches the expected service life of the system.

Pennsylvania was the first state in the nation to enact and use the DSIC, and since that time, it has become a national "best practice." Seven other states have now adopted mechanisms similar to Pennsylvania's water DSIC. Due to in large part to the DSIC, the PA PUC was recognized by Standard & Poor's for effectively encouraging water company investment in infrastructure improvements. The DSIC has also been recognized in a resolution passed by the National Association of Regulatory Utility Commissioners (NARUC) as a national best practice regulatory tool. In addition, the Council of State Governments included DSIC in its model legislation. The DSIC is one of the most important regulatory tools of the past decade and it was created in Pennsylvania.

Given the success Pennsylvania has had with the water DSIC, a logical next step is to expand the DSIC, or a similar ratemaking mechanism, to other sectors of the utility industry, such as the natural gas, electric, and wastewater sectors. Currently, there are approximately 11,000 miles of cast iron, unprotected bare steel, and even a small portion of wooden natural gas pipes in Pennsylvania that have reached or are reaching the end of

their useful lives. If left in place, these facilities will continue to deteriorate. Although I believe the natural gas transportation network in Pennsylvania as whole is very safe, the recent tragic events in Allentown and Philadelphia have proven that we must take every step possible to replace vulnerable pipelines.

Natural gas companies spend millions every year repairing, replacing and maintaining the pipelines. As explained above, the current process for recouping the costs of making these upgrades is insufficient and results in unnecessary delay. House Bill 1294 would allow utilities to request permission from the PUC to use a mechanism similar to DSIC to recoup the revenue needed to upgrade and improve the pipelines in a timely manner. This DSIC mechanism would allow natural gas companies the flexibility to perform safety upgrades without a lengthy process to approve the rates necessary to make the large capital investment, and would encourage companies to replace pipelines under an expedited schedule.

In addition, the DSIC and CSIC will provide ratepayers with improved service quality and greater rate stability. By replacing aging infrastructure at an accelerated pace, there will be fewer main breaks, less frequent service interruptions, increased safety, and lower levels of unaccounted for natural gas and wastewater. The DSIC saves costs, not only in reducing frequency of rate cases, but by incenting capital investment to replace aging infrastructure. The infrastructure replacement encouraged by the DSIC would also help create hundreds of jobs — utility positions and pipeline contractors — needed to support the infrastructure replacement program. In light of today's difficult financial

markets, DSIC and CSIC are the type of innovative regulatory policies expected as rating agencies tighten their ratings benchmarks and are a key element in maintaining access to capital markets on reasonable terms.

It is also important to note that under House Bill 1294, utilities will not be able to implement a DSIC or CSIC without PUC approval. When a utility seeks to implement a surcharge such as DSIC, these requests receive closer scrutiny and review than time allows during a base rate case. In addition, the PUC has many safeguards to ensure the DSIC is implemented appropriately. For example, the PUC caps the surcharge to a percent of the total utility bill and requires that all customers receive notice of any such rate change. In addition, the PUC performs annual reconciliation audits to ensure that over-collections are refunded with interest and under-collections are included in future rates without interest recovery. Finally, the PUC reduces the surcharge to zero if the utility is over-earning. Through these safeguards, the PUC will ensure the DSIC and other related surcharges are implemented in manner that protects and benefits customers.

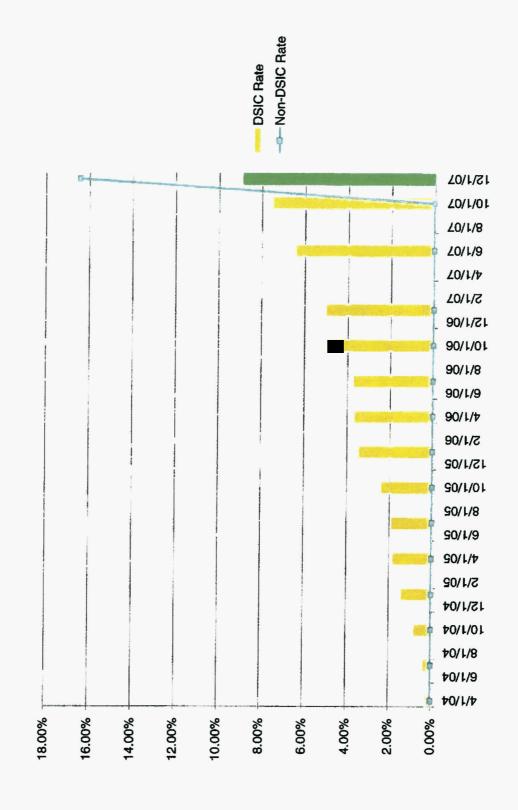
House Bill 1294 would also permit utilities to combine the revenue requirements of water and wastewater operations. Recently, the cost of wastewater treatment and collection has risen exponentially. As a result, many wastewater utilities have been granted significant rate increases by the PUC, which, in many cases, have resulted in rate shock for customers. By allowing utilities that provide both water and wastewater services to combine their revenue requirements, this will spread the increasing costs of

wastewater treatment and collection across a larger group of customers, thereby mitigating the dramatic rate increases for wastewater customers.

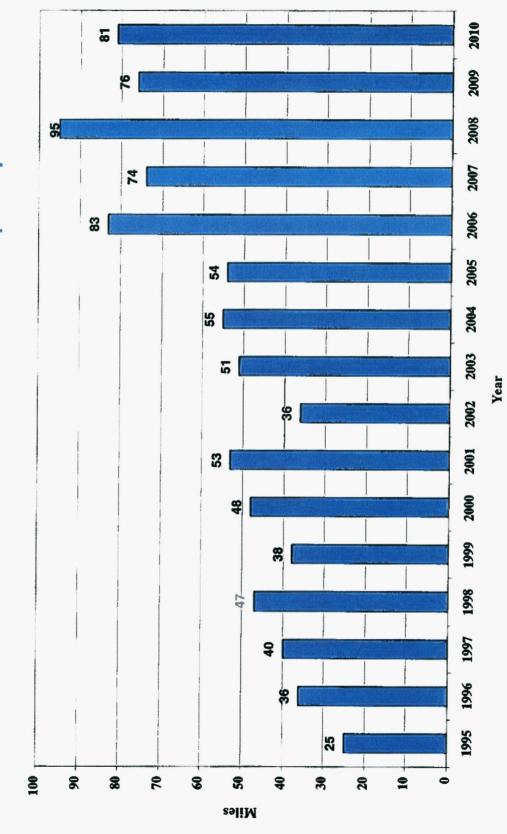
This approach makes sense when considering economies of scale. The number of wastewater customers in Pennsylvania is relatively small, which means it is difficult for those customers to absorb large rate increases. In contrast, there are a large number of water customers in Pennsylvania. Thus, if a portion of the wastewater rate increase is spread across the water customers, it will only result in a very small increase in the water customers' bills. This approach also allows wastewater customers to more gradually adjust to their increased rates.

The statutory changes embodied in House Bill 1294 are necessary to enable the PUC to address the regulatory challenges facing us. The alternative ratemaking mechanisms permitted under this legislation will encourage investment in our state, accelerate aging infrastructure replacement, and result in greater rate stability for customers. For these reasons, the PUC encourages the Legislature to pass House Bill 1294.

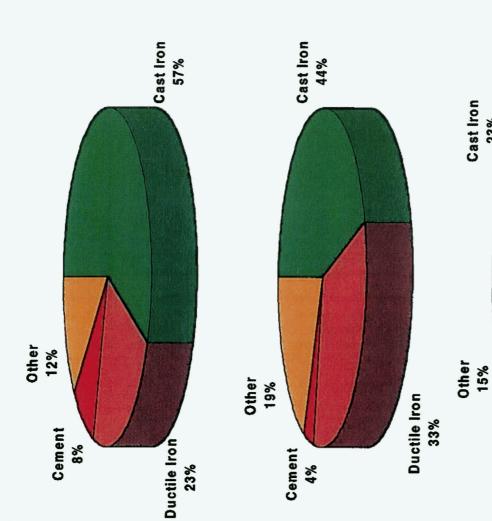
Smaller rate increases over time **DSIC Rate Gradualism**



Pennsylvania American Water: Miles of Pipe Replaced







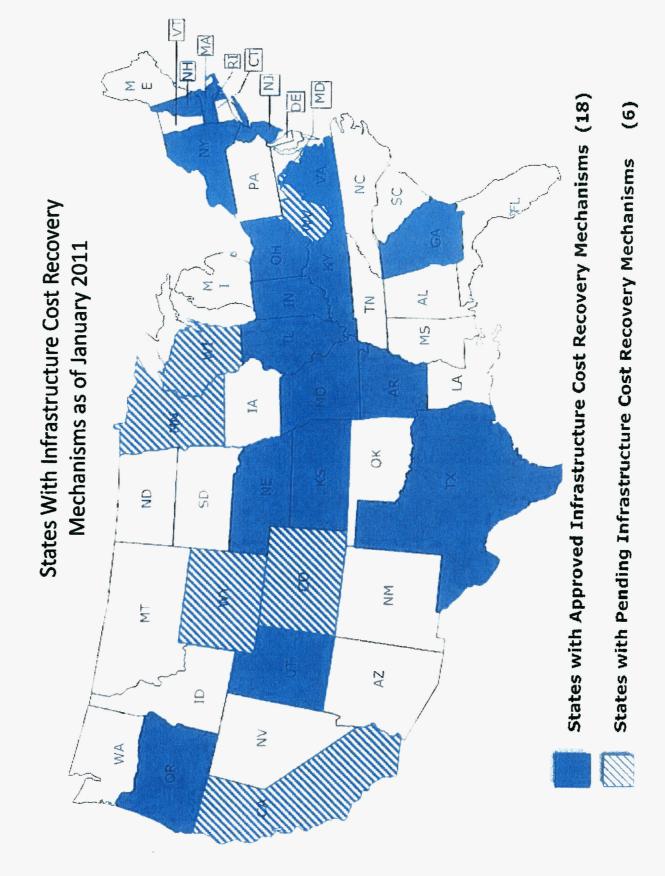
2008

Projected after Completion of

Cast Iron 23%



Ductile Iron



PMA-10

ORIGINAL ARTICLE

New approach to estimating the cost of common equity capital for public utilities

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Abstract The regulatory process for setting public utilities' allowed rate of return on common equity has generally used the Gordon DCF, CAPM and Risk Premium specifications to estimate the cost of common equity. Despite the widely known problems with these models, there has been little movement to adopt more recently developed asset pricing models to provide additional evidence for estimating the cost of capital. This paper presents, validates empirically and applies a general yet simple consumption-based asset pricing specification to model the risk-return relationship for stocks and estimate the cost of common equity for public utilities. The model is not necessarily superior to other models in its practical results, yet these results do indicate that it should be used to provide additional estimates of the cost of common equity. Additionally, the model raises doubts as to whether assets such as utility stocks are a consumption (business cycle) hedge.

Keywords Public utilities · Cost of capital · GARCH · Consumption asset pricing model

JEL Classification G12 · L94 · L95

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1 Introduction

Following electricity deregulation with the National Energy Policy Act of 1992, the estimation of the cost of common equity capital remains a critical component of the utility rate-of-return regulatory process. Since the cost of common equity is not observable in capital markets, it must be inferred from asset pricing models. The models that are commonly applied in regulatory proceedings are the Gordon (1974) Discounted Cash Flow (DCF), the Capital Asset Pricing (CAPM) and Risk Premium Models. There are other tools used to estimate the cost of common equity such as comparable earnings or earnings-to-price ratios, but they are not asset pricing models. The empirical literature on the CAPM is vast {Fama and French (2004)} and the CAPM is used by a number of US regulatory jurisdictions. The DCF model has not been empirically tested to the same extent as the CAPM, yet it is considered by many US regulatory jurisdictions.

The purpose of this paper is to present, test empirically and apply a recently developed general consumption-based asset pricing model that estimates the risk-return relationship directly from asset pricing data and, when estimated with recently developed time series methods, produces a prediction of the equity risk premium that is driven by its predicted volatility. The predicted risk premium is then added to a riskfree rate of return to provide an estimate of the cost of common equity. We predict two forms of the equity risk premium with the model, the risk premium net of the risk-free rate and the equity-to-debt risk premium (equity risk premium net of the relevant bond yield for the company's stock). Either can be applied to predict the common equity cost of capital for a public utility. Although the model is tested and applied to public utilities for rate of return regulation, it can be used to estimate the cost of capital for any stock. Section 2 reviews the asset pricing models typically used in public utility rate cases and the generalized consumption asset pricing model we propose to estimate the cost of common equity. Section 3 discusses the data and the empirical testing of the consumption asset pricing model. Section 4 reviews the application of the model and compares it with the DCF and CAPM results. Section 5 is the conclusion.

2 DCF, CAPM and consumption asset pricing model

2.1 DCF and CAPM approaches

The standard DCF model frequently used in estimative the cost rate of common equity in regulatory proceedings is defined by the following equation:

$$k = D_0 (1+g)/P_0 + g$$

where k is the expected return on common equity; D_0 is the current dividend per share; g is the expected dividend per share growth rate; and P_0 is the current market price.

The DCF was developed by Gordon (1974) specifically for regulatory purposes. Underlying the DCF model is the theory that the present value of an expected future stream of net cash flows during the investment holding period can be determined



by discounting those cash flows at the cost of capital, or the investors' capitalization rate. DCF theory indicates that an investor buys a stock for an expected total return rate which is derived from cash flows received in the form of dividends plus appreciation in market price (the expected growth rate) over the investment holding period. Mathematically, the expected dividend yield $(D_0(1+g)/P_0)$ on market price plus an expected growth rate equals the capitalization rate, i.e., the expected return on common equity.

The standard DCF contains several restrictive assumptions, the most contentious of which during utility cost of capital proceedings is typically that dividends per share (DPS), book value per share (BVPS), earnings per share (EPS) as well as market price grow at the same rate in perpetuity. There is also considerable contention over the proper proxy for g, prospective or historical growth in DPS, BVPS, EPS and market price and over what time period. In addition, although the standard DCF described above is a single stage annual growth model, there is considerable discussion over the use of multiple stage growth models during regulatory proceedings. Some analysts use the discrete version and others use the continuous version of the DCF model. Solving these models for k, the cost of common equity, results in differing equations to solve for k. The equation above is from the discrete version. The continuous version uses the current dividend yield and is not adjusted by g, which results in a lower estimate for k. Because of these and other restrictive assumptions that require numerous subjective judgments in application, it is often difficult for regulatory commissions to reconcile the frequently large disparities in rates of return on common equity recommended by various parties in a public utility rate case.

The CAPM model is defined by the following equation:

$$k = R_f + \beta \left(R_m - R_f \right),\,$$

where k is the expected return on common equity; R_f is the expected risk-free rate of return; β is the expected beta; and R_m is the expected market return.

CAPM theory defines risk as the co-variability of a security's returns with the market's returns or β , also known as systematic or market risk, with the market beta being defined as 1.0. Because CAPM theory assumes that all investors hold perfectly diversified portfolios, they are presumed to be exposed only to systematic risk and the market (according to the model) will not reward them a risk premium for unsystematic or non-market risk. In other words, the CAPM presumes that investors require compensation only for systematic or market risks which are due to macroeconomic and other events that affect the returns on all assets. Mathematically, the CAPM is applied by adding a forward-looking risk-free rate of return to an expected market equity risk premium adjusted proportionately by the expected beta to reflect the systematic risk.

As with the DCF, there is considerable contention during regulatory cost of capital proceedings as to the proper proxies for all components of the CAPM: the R_f , the R_m , as well as β . In addition, the CAPM assumption that the market will only reward investors for systematic or market risk is extremely restrictive when estimating the expected return on common equity for a single asset such as a single jurisdictional regulated operating utility. Additionally, this assumption requires that the investor have a perfectly diversified portfolio, that is, one with no unsystematic risk. Since



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this assumption is not applicable, estimating the cost of common equity capital for a single utility's common equity undoubtedly will not reflect the risk actually faced by the imperfectly diversified investor.

As will be discussed in the next section, our application of the risk premium approach, the consumption asset pricing model and GARCH¹ rest on minimal assumptions and restrictions and therefore requires considerably less judgment in its application.

2.2 Risk premium approach, consumption asset pricing models, and GARCH

A widely used model to estimate the cost of common equity capital for public utilities is the risk premium approach. This approach often estimates the expected rate of return as the long-term historic mean of the realized risk premium above an historic yield plus the current yield of the relevant bond applicable to a specific utility or peer group of utilities. Litigants in public utility rate proceedings debate the choice of inputs to estimate the risk premium as well as how far back to reach into history to collect data for calculating an average that is representative of a forward-looking premium.

It is surprising that, as popular as the risk premium method is in public utility rate cases, the intuitively appealing general consumption-based asset pricing model, with its minimal assumptions and strong theoretical foundation, has not been applied to estimate the cost of common equity capital for public utilities. The model provides projections of the conditional expected risk premium on an asset based on its relation to its predicted conditional volatility. This model generalizes the well known special case asset pricing models such as the Merton (1973) intertemporal capital asset pricing model, Campbell (1993) intertemporal asset pricing model, and the habit-persistence model of Campbell and Cochrane (1999), which are special cases of the general model. The relation of the model to their specialized cases can be found in Cochrane (2006) and Cochrane (2007). The approach of consumption asset pricing models is to make investment decisions that maximize investors' utility from the consumption that they ultimately desire, not returns.

Even if the model is not used to project directly the expected risk premium, it can, at a minimum, be used to verify that the risk premia data chosen for estimating the cost of capital is empirically validated by fitting the model well. The model can be used to predict the equity risk premia net of the risk-free rate (equity risk premium) or to predict the equity-to-debt risk premium for a firm. We perform both of these empirical tests in this paper. The general consumption-based asset pricing model developed in Michelfelder and Pilotte (2011) and based on Cochrane (2004) provides the relationship of the ex ante risk premium to an asset's own volatility in return:

$$E_{t}[R_{i,t+1}] - R_{f,t} = -\frac{vol_{t}[M_{t+1}]}{E_{t}[M_{t+1}]}vol_{t}[R_{i,t+1}]corr_{t}[M_{t+1}, R_{i,t+1}].$$
(1)

¹ GARCH refers to the generalized autoregressive conditional heteroskedasticity regression model which is discussed below.



where vol_t is the conditional volatility, $corr_t$ is the conditional correlation, and M_{t+1} is the stochastic discount factor (SDF).

The SDF is the intertemporal marginal rate of substitution in consumption, or, $M_{t+1} = \beta \frac{U_{c,t+1}}{U_{c,t}}$, where the U_c 's are the marginal utilities of consumption in the next period, t+1, and the current period, t, and β is the discount factor for period t to t+1. Equation 1 shows that the algebraic sign of the relation between the expected risk premium and the conditional volatility of an asset's risk premium is determined by the correlation between the asset's return and the SDF. That is, the direction of the relation between the asset return and the ratio of intertemporal marginal utilities in consumption inversely determines the relation between the expected risk premium and conditional volatility. When the correlation is equal to negative one, the asset's conditional expected risk premium is perfectly positively correlated with its conditional volatility. A positive relation between the conditionally expected risk premium and volatility obtains when $-1 < corr_t < 0$. A negative relation obtains when $0 < corr_t < 1$. For an asset that represents a perfect hedge against shocks to the marginal utility of consumption, with $corr_t = 1$, there will be a perfect negative correlation between the conditionally expected risk premium and its volatility.² Therefore, estimates of the relation between the first two conditional moments of a public utility stock's returns provide a direct test of the effectiveness of a public utility stock, or any asset, as a consumption hedging asset. In Eq. 1, $vol_t[M_{t+1}]/E_t[M_{t+1}]$ is the slope of the meanvariance frontier. If this slope changes over time, the estimated relation between the stock's risk and return will vary over time. This model can also be viewed simplistically as the projected expected risk premium as a function of its own projected risk, given information available at time t.

Note that the model allows for the expected risk premium to be negative if the asset hedges shocks to the marginal utility of consumption. Investors are willing to accept an expected rate of return lower than the risk-free rate of return if the pattern of volatility is such that returns are expected to rise with expected reductions in consumption. Simply, investors are willing to pay a premium for a higher level of returns volatility that has the desired pattern of returns. These desired returns patterns have a tendency to offset drops in consumption. Therefore, this model shows that investors may not be averse to volatility, but rather to the timing of expected changes in returns.

Summarizing, several conclusions can be drawn from the general model of asset pricing. First, the sign of the relation between a stock's risk premium and conditional volatility depends on the extent to which the stock serves as an intertemporal hedge against shocks to the marginal utility of consumption. Second, the relation between stock risk and return may be time-varying depending on changes in the slope of the mean-variance frontier. Third, hedging assets have desired patterns of volatility that result in expected rates of return that are less than the risk-free rate. We do not expect

² A hedging asset is one that has a positive increase in returns that is coincident with a positive shock in the ratio of intertemporal marginal utilities of consumption. Note that if we assume a concave utility function in consumption, as consumption declines, the marginal utility of consumption rises relative to last period marginal utility. If we think of a decline in consumption as a contraction in the business cycle, the hedging asset delivers positive changes in returns when the business cycle is moving into a contraction, and therefore the asset is a business cycle hedge.



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that public utility stocks serve as a hedging asset as they are not viewed as defensive stocks (they do not rise in value during downturns in the stock market) due to asymmetric regulation and returns as discussed in detail in Kolbe and Tye (1990). Under asymmetric regulation, utility regulators have a tendency to allow the return on equity to fall below the allowed return during downturns in the business cycle and to reduce the return should it rise above the allowed return during expansions. Therefore we expect that the parameter estimates of the return-risk relationship to be positive as utility stocks are hypothesized to not be hedges.

We use the GARCH model to estimate the general asset pricing model since the GARCH model accommodates ARCH effects that improve the efficiency of the parameter estimates. It also provides a volatility forecasting model for the conditional volatility of the asset's risk premium. The conditional volatility projection is used, in turn to predict the expected risk premium. We also use the GARCH-in-Mean model (GARCH-M) since it specifies that the conditional expected risk premium is a linear function of its conditional volatility. There is a vast body of literature that estimates asset pricing models with the GARCH and GARCH-M methods and therefore we will not attempt to summarize them here.

The GARCH-M model was initially developed and tested by Engle et al. (1987) to estimate the relationship between US Treasury and corporate bond risk premia and their expected volatilities. The GARCH-M model is specified as:

$$R_{t+1} - R_{f,t+1} = \alpha \sigma_{t+1}^2 + \varepsilon_{t+1} \tag{2}$$

$$\sigma_{t+1}^2 = \beta_0 + \beta_1 \sigma_t^2 + \beta_2 \varepsilon_t^2 + \eta_{t+1}$$
 (3)

$$\varepsilon_t | \psi_{t-1} \sim T(0, \sigma_t^2) \tag{4}$$

where R_{t+1} is the expected total return on the public utility stock index or individual utility stock; $R_{f,t+1}$ is the risk-free rate of return or the yield on an index of public utility bonds of a specified bond rating for the equity-to-debt premium; σ_{t+1}^2 is the conditional or predicted variance of the risk premium that is conditioned on past information (ψ_{t-1}) ; and ε_t is the error term that is conditional on ψ_{t-1} .

The conditional distribution of the error term is specified as the non-unitary variance T-distribution due to the thick-tailed distribution of the risk premia data. If the error distribution is thick-tailed, using an approximating distribution that accommodates thick tails improves the efficiency of the estimates. The parameter, α , is the return-to-risk coefficient as specified in Eq. 1 as:

$$\alpha = -\frac{vol_t[M_{t+1}]}{E_t[M_{t+1}]} corr_t[M_{t+1}, R_{i,t+1}]$$
 (5)

Note that the coefficient will be positive if the conditional correlation between the SDF and the asset return is negative, indicating that the stock is not a hedging asset. Recall that the SDF is the ratio of intertemporal marginal utilities. Assuming a concave utility function, an upward shock in the ratio implies falling consumption, therefore an associated rise (positive correlation) in the return (R_i) would offset the reduction



in consumption, thereby causing the sign of α to be negative. The parameter, α , is also the ratio of risk premium to variance, or, the Sharpe ratio.

The intercept in Eq. 2 is restricted to zero as specified by the general asset pricing model specification. The restriction on the intercept equal to zero has been found to be robust in producing consistently positive and significant relationships between equity risk premia and risk in GARCH-M models. This is discussed in Lanne and Saikkonen (2006) and Lanne and Luoto (2007). We have found the same results in our modeling in this paper, although we have excluded these results for brevity (available upon request). Therefore we specify the prior assumption that the intercept or the "excess" return, i.e., the return not associated with risk to be equal to zero and drop the intercept from the model.

The consumption asset pricing model is estimated in the empirical section of the paper and applied in the applications section of the paper. The model is tested to (1) determine if equity-to-debt risk premium indices for utilities of differing risk specified by differing bond ratings are validated by the asset pricing model and therefore have some empirical support for risk premium prediction and application to utility cost of capital estimation, (2) determine whether equity risk premia can be predicted and fit the model and therefore be used to estimate the cost of common equity, (3) empirically test the consumption asset pricing model, and (4) ascertain whether utility stocks are assets that hedge shocks to the marginal utility of consumption.

If utility stocks are hedging assets then the cost of common equity should reflect a downward adjustment to a specified risk-free rate to reflect investors' preferences for a hedge and the compensation that they are willing to pay for it.

3 Data and empirical results

We use portfolios as represented by public utility stock and bond indices to estimate the conditional return-risk relationship for the equity-to-debt premium. The equity-to-debt risk premium data employed for estimating Eq. 1 with the GARCH-M conditional return-risk regressions are monthly total returns on the Standard and Poor's Public Utilities Stock Index (utility portfolio), and the monthly Moody's Public Utility Aa, A, and Baa yields for the debt cost. We also obtained equity risk premia for the utility portfolio using the Fama-French specified risk-free rate of return, which is the holding period return on a 1-month US Treasury Bill. The data range from January 1928 to December 2007 with 960 observations. The return-risk relationships for the equity-to-debt premia are risk-differentiated by their own bond rating.

As a check, we also estimate Eq. 1 with the GARCH-M for large common stock returns using the monthly Ibbotson Large Company Common Stocks Portfolio total returns and the Ibbotson US Long-Term Government income returns as the risk-free rate. Additionally, as another check, we do the same for the University of Chicago's Center for Research in Security Prices value-weighted stock index (CRSP) using the Fama-French risk-free rate. This is the Fama-French specification of the market equity risk premium. The data range from January 1926 to December 2007 with 984 observations for the Large Company Common Stock estimation and the data ranges



Table 1 Descriptive statistics: public utility and large company common stocks equity-to-debt and equity risk premia

Utility bond rating	Mean	Std. Dev.	Skewness	Kurtosis	JB
Aa	0.0037	0.0568	0.0744	10.07	2,001.2***
Α	0.0035	0.0568	0.0632	10.06	1,991.8***
Baa	0.0031	0.0568	0.0375	10.02	1,973.6***
Ibbotson					
Large common stocks	0.0054	0.0554	0.4300	12.84	3,954.7***
CRSP value-weighted stock index	0.0062	0.0544	0.2309	10.92	2,519.1***

The public utility equity-to-debt risk premia monthly time series is from January 1928 to December 2007 with 960 observations. The equity risk premium monthly time series for the Large Common Stocks and the CRSP index are January 1926 to December 2007 with 984 observations, and January 1926 to December 2007 with 984 observations, respectively. The public utility stocks equity-to-debt risk premia are calculated as the total return on the S&P Public Utilities Index of stocks minus the Moody's Public Utility Aa, A, and Baa Indices yields to maturity. The Large Company Common Stock equity risk premia are the monthly total returns on the Ibbotson Large Company Common Stocks Portfolio minus the Ibbotson Long-Term US Government Bonds Portfolio income yield. The CRSP equity risk premia, or the Fama-French market risk premia are the CRSP total returns on the value-weighted equity index minus the 1-month holding period return on a 1 month Treasury Bill. The Jarque-Bera (JB) statistic is a goodness-of-fit measure of the departure of the distribution of a data series from normality, based on the levels of skewness and excess kurtosis. The JB statistic is χ^2 distributed with 2° of freedom. *** Significant at 0.01 level, one-tailed test

from January 1928 to January 2007 with 960 observations (same as the utilities) for the CRSP estimation.

Table 1 displays the descriptive statistics for these data. We have estimated the mean, standard deviation, skewness and kurtosis parameters, as well as the Jarque-Bera (JB) statistic to test the distribution of the data. The means of the utility equity-to-debt risk premia fall as the risk (bond rating) declines. This is consistent with the notion that larger yields are subtracted from stock returns the lower the bond rating. Intertemporally, there is an inverse relationship between risk premia and interest rates (See Brigham et al. (1985) and Harris et al. (2003)). The mean for risk premia will have a tendency to be larger during low interest rate periods.

Not surprisingly, large company common stocks have the highest mean risk premia as the majority of these firms are not rate-of-return regulated firms with a ceiling on their ROE's close to their cost of capital. Interestingly, the standard deviations of the utility stock returns are similar and slightly higher than large company common stocks. Skewness coefficients are small and positive except for Ibbotson large company common stock returns and CRSP returns that have large positive skewness. This suggests that large unregulated stocks have a tendency to have more and larger positive shocks in returns than do utilities that are rate of return regulated. The kurtosis values show that all of the risk premia are thick-tail distributed. This is also found in the significant JB statistics that test the null hypothesis that the data are normally distributed. The null hypothesis is rejected for all assets. The high kurtosis, low skewness, and significant JB statistics show that the risk premia data are substantially thick-tailed, except for non-utility stocks that are both skewed and thick-tailed. Therefore, robust estimation methods are required to produce efficient regression estimates with non-normal data. Additionally, although not shown but available upon request, the serial correlation and



ARCH Lagrange Multiplier tests show that residuals from OLS regressions of risk premia on volatilities follow an ARCH process. Therefore, the GARCH-M method will improve the efficiency of the estimates. We specify the regression error distribution as a non-unitary variance T-distribution so that thick-tails could be accommodated in the estimation and therefore produce increasingly efficient parameter estimates.

We used maximum likelihood estimation with the likelihood function specified with the non-unitary-variance T-distribution as the approximating distribution of the residuals to accommodate the thick-tailed nature of the error distribution. The equations are estimated as a system using the Marquardt iterative optimization algorithm. The chosen software for estimating the model was EViews[©] version 6.0 (2007).

Table 2 shows the GARCH-M estimations for the consumption asset pricing Eq. 1. We have estimated Eq. 1 for the utility equity risk premia using the Fama-French risk-free rate in addition to the equity-to-debt risk premia risk-differentiated by bond ratings and the two measures of the market equity risk premium. The chosen measure of volatility is the variance of risk premium (in contrast to other such measures such as the standard deviation or the log of variance. Although these results are not shown for brevity, they are robust to these other measures of volatility). The slope, which is the predicted return-to-predicted risk coefficient and Sharpe ratio, is positive and significant at the 99% level for all assets except the utility stock returns with Baa bonds, which is significant at the 95% level. Given that all slopes are positive, public utility stocks are not found to hedge shocks to the marginal utility of consumption. Note that the reward-to-risk slope rises as bond rating rises. This suggests that lower risk utility stocks provide a higher incremental risk-premium for an increase in conditional volatility. This is consistent with other studies that find that lower risk assets, such as shorter maturity bonds, have higher Sharpe Ratios than longterm bonds and stocks. See Pilotte and Sterbenz (2006) and Michelfelder and Pilotte (2011).

The variance equation shows that all GARCH coefficients (β 's) are significant at the 1% level and the sums of β_1 and β_2 are close to, but less than 1.0, indicating that the residuals of the risk premium equation follow a GARCH process and that the persistence of a volatility shock on returns and stock prices for utility stocks is temporary. The estimates of the non-unitary variance T-distribution degrees of freedom parameter are low and statistically significant, indicating that the residuals are well approximated by the T. Similar values for the log-likelihood functions (Log-L) show that each of the regressions has a similar goodness-of-fit. Chi-squared distributed likelihood ratio tests (not shown but available upon request) that compare the goodness of fit among the T and normal specifications of the likelihood function of the GARCH-M regressions show that the T has a significantly better fit than the normal distribution.

The GARCH-M results for the large company common stocks portfolio are similar to those of the utility stocks. Not surprisingly, large company common stocks do not hedge shocks to the marginal utility of consumption and volatility shocks temporarily affect their valuations. The exception is that the return-risk slope is substantially higher than utility stock slopes. This is partially due to the risk-free nature of the risk-free rates used with the non-utility equity risk premia compared to the



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Table 2 Estimation of return-risk relation: public utility and large company common stocks

Utility bond rating	α	β_0	$oldsymbol{eta}_1$	β_2	Log-L	T dist. D.F.
Aa	1.5183*** (0.5308)	0.0000**	0.8791*** (0.0230)	0.1031*** (0.0219)	1,604.4	9.9254*** (3.0272)
A	1.4536*** (0.5308)	0.0000** (0.0000)	0.8790*** (0.0230)	0.1033*** 1,605.0 (0.0220)		9.9381*** (3.0408)
Baa	1.3318** (0.5303)	0.0000** (0.0000)	0.8789*** (0.0229)	0.1040*** (0.0220)	1,605.2	10.0*** (3.0540)
Fama-French R_f	2.1428*** (0.5318)	0.0000** (0.0000)	0.8811*** (0.0232)	0.0979*** (0.0212)	1,601.0	9.8773*** (2.9700)
Ibbotson						
Large company common stocks	2.7753*** (0.5513)	0.0001*** (0.0000)	0.8381*** (0.0269)	0.1186*** (0.0332)	1,620.8	8.8457*** (2.1613)
CRSP value-weighted stock index	3.3873*** (0.5673)	0.0001*** (0.0000)	0.8330*** (0.0270)	0.1149*** (0.0358)	1,598.9	8.8571*** (1.9505)

The results below are the GARCH-in-Mean regressions for the risk premium $(R_{t+1} - R_{f,t+1})$ on the conditional variance of the risk premium (σ_{t+1}^2) in the mean equation. The intercept in the mean equation is restricted to be equal to zero. The public utility equity-to-debt risk premia monthly time series is from January 1928 to December 2007 with 960 observations. The equity risk premium monthly time series for the Large Company Common Stocks and the CRSP index are January 1926 to December 2007 with 984 observations, and January 1926 to December 2007 with 984 observations, respectively. The public utility stocks equity-to-debt risk premia are calculated as the total return on the S&P Public Utilities Index of stocks minus the Moody's Public Utility Aa, A, and Baa Indices yields to maturity. The Large Company Common Stock equity risk premia are the monthly total returns on the Ibbotson Large Company Common Stocks Portfolio minus the Ibbotson Long-Term US Government Bonds Portfolio income yield. The CRSP equity risk premia, or the Fama-French market risk premia are the CRSP total returns on the value-weighted equity index minus

the 1-month holding period return on a 1 month Treasury Bill. The estimated model is:
$$R_{t+1} - R_{f,t+1} = \alpha \sigma_{t+1}^2 + \varepsilon_{t+1}$$
 where $\alpha = -\frac{vol_t[M_{t+1}]}{E_t[M_{t+1}]} corr_t[M_{t+1}, R_{i,t+1}]$ $\sigma_{t+1}^2 = \beta_0 + \beta_1 \sigma_t^2 + \beta_2 \varepsilon_t^2 + \eta_{t+1}$

The conditional distribution of the error term is the non-unitary variance T-distribution to accommodate the kurtosis of the risk premia and error term. Standard errors are in parentheses. ***, **, * denote significance at the 0.01, 0.05, and 0.10 levels, respectively for two-tail tests

utility bond yields that reflect risk. The utility stocks slope value of 2.1428 using the Fama-French risk-free rate is closer to the higher CRSP value of 3.3873 that is also based on the Fama-French risk-free rate. This is inconsistent with previous results herein and in other papers that find that Sharpe Ratios are lower for higher risk assets unless this finding can be interpreted as utility stocks having more risk than non-regulated stocks. The standard deviations on Table 1 suggest that utility stock return volatilities are as high as the stock returns of non-regulated firms. However, similar model estimates of portfolios of common stocks yield unstable results, such as negative as well as positive return-risk slopes when the intercept is not restricted to zero. See Campbell (1987), Glosten et al. (1993), Harvey (2001), and Whitelaw (1994).



Stock market results are highly sensitive to empirical model specification. Many studies do not consider the impact of a zero-intercept prior restriction on the stability of their results. This simple innovation has led to more consistent results in modeling stock market risk-return relationships, and therefore we have included it in this paper.

The estimation of the consumption asset pricing model for utility stock equity-debt risk premia shows that the use of bond-rating risk-differentiated risk premia are validated as their risk-return relationships are well-fitted by theoretical and empirical models of risk and return. Therefore, these data impound good representations of the risk and reward relationship.

One concern is the intertemporal stability of the alphas. Figure 1 plots the utility stock portfolio alpha (using the Fama-French R_f to calculate the premium) and its standard error for 240 month rolling regressions of the model estimated with GARCH-M in the same manner as described above to review the intertemporal stability of the alpha. A 20-year period was used for each estimation to trade off timeliness with sufficient observation of up and down stock market regimes and business cycles. This resulted in 720 estimated alphas from 1947 to 2007. The results show that the utility alpha is stable to the extent that the algebraic sign is always positive and generally significant, therefore the nature of utility stocks are assets that are not and have never been hedges during the second half of the twentieth century up to the present. The value of the alpha does change substantially. The mean of the alpha is 4.40 with a range from -0.11 (insignificantly different from 0) to 11.66. As a comparison, the alpha for the CRSP value-weighted stock index was also estimated with rolling regressions in the same manner and for the same time period. Figure 2 is a plot of the CRSP alpha and standard error. Note that the general stock market alpha is similar to that of utility stocks. They are all positive and almost all statistically significant and follow a strikingly similar cycle. Figure 3 plots both the utility and stock market alphas and demonstrates the similarity. The correlation coefficient between the utility and stock market alphas is 0.88. Recalling that the alpha is a Sharpe Ratio, we see that return to risk ratio does change substantially. This is consistent with the results in Pilotte and Sterbenz (2006).

One other interesting observation is that the standard errors of the alphas are highly stable over the study period and are very similar in magnitude regardless of the size of the corresponding alpha. Whereas the alpha follows a cyclical pattern, the volatility in alpha is highly stationary around a constant, long-run mean.

The GARCH-M model estimations of the consumption asset pricing model were specified with variance as the measure of volatility. We also performed the same model estimations with alternative specifications of volatility such as the standard deviation and the log of variance and the results were not sensitive to this specification.

4 Application

We apply the model in this section to compare the cost of common equity capital estimates with the DCF and CAPM models. Using EViews Version 6.0, we estimated the model coefficients $(\alpha, \beta's)$ over rolling 24 month periods ending December 2008.



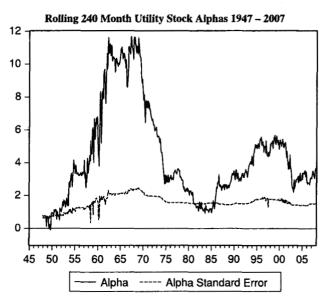


Fig. 1 Rolling 240 month utility stock alphas 1947-2007

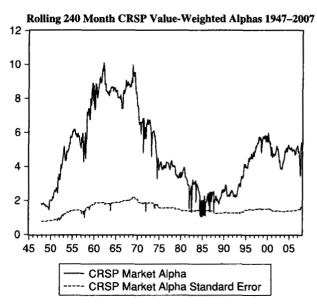


Fig. 2 Rolling 240 month CRSP value-weighted alphas 1947-2007

We repeated the estimation over 5, 10, 15, 20 and 79 year periods.³ Predicted monthly variances (σ_{t+1}^2) were generated from these estimations to produce predicted risk premiums that were calculated by multiplying the predicted variance by the " α " slope

³ We did not include the results of the 10 and 15 year estimations to abbreviate the amount of empirical results presented since they added no material insights beyond those already presented.



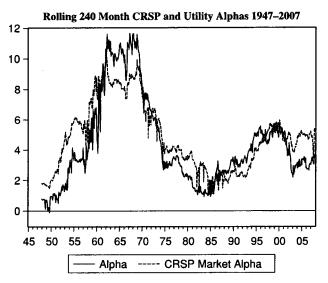


Fig. 3 Rolling 240 month CRSP and utility alphas 1947-2007

Table 3 Estimates of expected risk premia

	Mean (%	Mean (%)			Standard deviation (%)		
	Average	Spot	Average	Spot	Average	Spot	
Ibbotson Associates of	lata			•			
79-years	9.59	5.76	8.74-9.96	2.62-22.60	0.32	5.24	
20-years	6.77	6.94	4.99-8.50	2.24-28.95	0.95	6.88	
5-years	4.20	10.25	-98.49-11.62	-100.00-39.65	22.00	26.61	
S&P Utility Index							
79-years	5.28	2.90	4.30-5.28	1.65-8.15	0.32	1.60	
20-years	3.93	3.51	2.78-5.03	2.18-6.88	0.57	1.11	
5-years	31.82	326.63	7.77–156.97	6.12-6465.74	31.47	1283.51	

coefficient. To test the stability of the predicted risk premia over time, the predicted risk premia were calculated using either the predicted variance over each entire time period or the last monthly (spot) predicted variance. Table 3 presents the mean predicted risk premia, the range of predicted premia and the standard deviations for each time period. It is clear from the results that the risk premia are more stable over the rolling 24 month period when calculated using the average predicted variance compared with using the spot variance. Secondly, the 20 and 79 year means are substantially more stable and reasonable in magnitude than the 5 year means.

Next, given the lessons from the analyses above, we apply the model to mechanically⁴ estimate the cost of common equity for 8 utility companies using the model and

⁴ The term "mechanically" in this context means that the resulting values have been developed in a consistent manner with the same inputs across all utility stocks but no subjective judgment was used to develop final values for each specific utility stock application.

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the DCF and CAPM as comparisons. We also calculated the realized market return for comparison. Two publicly-traded electric, electric and gas combination, gas, and water utilities respectively were chosen for the application. The Gordon (1974) DCF and CAPM models are used in many utility regulatory jurisdictions in the US.

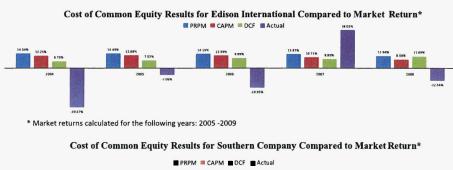
The DCF was applied using a dividend yield, D_0/P_0 , derived by dividing the year-end indicated dividend per share (D_0) by the year-end spot market price (P_0) . The dividend yield is grown by the year-end I/B/E/S five year projected earnings per share growth rate (g) to derive $D_0(1+g)/P_0$. The one-year predicted dividend yield is then added to the I/B/E/S five-year projected EPS growth rate to obtain the DCF estimate of the cost of common equity capital, k. This study was conducted for the 5 years ending 2008.

The CAPM was applied by multiplying the Value Line beta (β) available at yearend for each company by the long-term historic arithmetic mean market risk premium $(R_m - R_f)$. $R_m - R_f$ is derived as the spread of the total return of large company common stocks over the income return on long-term government bonds from the Ibbotson SBBI 2009 Valuation Yearbook. The resulting company-specific market equity risk premium is then added to a projected consensus estimate of the yield on 30-year U.S. Treasury rate provided by Blue Chip Financial Forecasts as the risk-free rate (R_f) to obtain the CAPM result. This study was also conducted over the 5 years ending 2008.

Figures 4–11 show the histograms of the cost of common equity capital estimations for each of the eight public utility stocks and the realized market returns in the forthcoming year. The consumption asset pricing model appears to track more consistently with the CAPM than with the DCF which seems to produce generally lower values than the other methods. The consumption asset pricing model results are similar to the CAPM. The model and the CAPM compete as the best predictor of the rate of return on the book value of common equity (not shown but available upon request), but none of the expected returns were good predictors of market returns. That does not infer that they were not good predictors of *expected* market returns. These results are an initial indicator that the consumption asset pricing model provides reasonable and stable results. This paper does not suggest at this early juncture that the consumption asset pricing model is superior to the CAPM or DCF, although it is based on far less restrictive assumptions than these other models. For example, both the DCF and CAPM assume that markets are efficient. Many assume that the DCF requires that the market-to-book ratio to always equal one, whereas the long-term value for the Standard and Poor's 500 is equal to 2.34. The CAPM assumes that investors demand higher returns for higher volatility and that the minimum required return is the risk-free rate, whereas the consumption asset pricing model allows for investors to require returns less than the risk-free rate for stocks that may have relatively higher volatility but are hedging assets that have desirable return fluctuation patterns that offset downturns in the business cycle. Unlike the CAPM, the model prices the risk to which investors are actually exposed, whether it's systematic risk or not. Some investors are diversified and some are not; the model prices whatever risk to which the aggregate of investors of the specific stock is exposed.

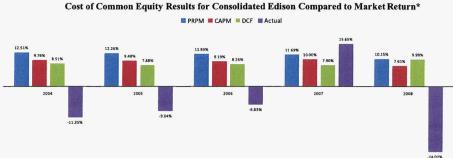
We find that the consumption asset pricing model should be used in combination with other cost of common equity pricing models as additional information in the devel-

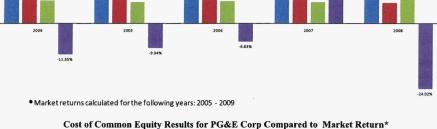


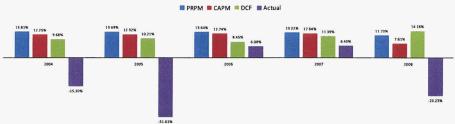




* Market returnscalculated for the following years: 2005 -2009







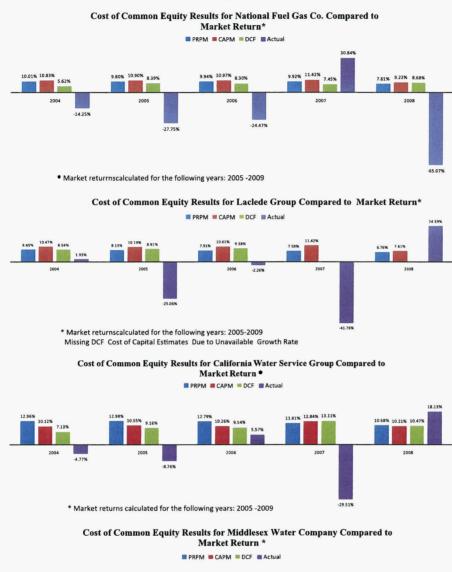
• Market returns calculated for the following years: 2005 -2009

Figs. 4-11 Comparison of the cost of common equity estimates and market

opment of a cost of common equity capital recommendation. Practitioners may find the modeling methods and the use of relatively advanced econometric methods rather cumbersome. The software for performing these estimations is readily available from EViews[©] and SAS[©]; two commonly available software packages at utilities, consult-



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Market returnscalculated for following years: 2005 -2009
 Missing DCF Cost of Capital Estimate Due to Unavailable Growth Rate

Figs. 4-11 continued



ing firms and financial firms. Recent Ph.D. and M.S. holding members of research departments of investment and consulting firms have ready access to the model and methods discussed in this paper, although it will require years for these tools, like any "new" technology, to diffuse into standard use. Another problem is that the model requires a substantial time series history on stock returns data to develop stable estimates of risk premia This is problematic especially for the electric and gas utility industries that have consolidated with many mergers in the recent past. This problem can be addressed by developing and predicting the value-weighted risk premium of a portfolio of similar stocks such as electric utilities that have nuclear generating assets. The specific stock in question would be included in the returns index with a weight based on market capitalization that would go to 0 when the stock price history is no longer existent reaching back into the past.

5 Conclusion

The purpose of this paper is to introduce, test empirically and apply a general consumption based asset pricing model that is based on a minimum of assumptions and restrictions that can be used to predict the risk premium to be applied in estimating the cost of common equity for public utilities in regulatory proceedings. The results support the simple consumption-based asset pricing model that predicts the ex ante risk premium with a conditionally predicted volatility in risk premium. The estimates of the cost of common equity from the consumption asset pricing model compare well with rates of return on the book value of common equity and with the CAPM, although both the model and the CAPM results are substantially higher than the DCF. This is quite common in the practice of the cost of common equity in the utility industry. The results of the model are stable and consistent over time. Therefore the model should be considered as it provides additional evidence on the cost of common equity in general and specifically in public utility regulatory proceedings. Secondly, the use of bondrated yields to predict risk differentiated equity-to-debt risk premia is supported by the empirical evidence and therefore should be applied in estimating the cost of common equity. Finally, the robust empirical evidence on the positive risk-return relationship also shows that utility stocks are not a consumption hedge and are not good hedging securities against contractions in the economy. The model and estimation methodology presented in this paper provide a relatively simple tool to determine whether any asset is a hedge to adverse changes in the business cycle through the level of consumption in the economy.

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PMA-11

Arizona Water Company Calculation of the Predictive Rick Premium Model (PRPM™) For ACC Staff Wtiness Cassidy's and RUCO Witness Rigsby's Water Sample Groups

	American States Water Co.	Aqua America, Inc.	California Water Group	Connecticut Water Service, Inc.	Middlesex Water Co.	SJW Corp.
Average	0.38%	0.49%	0.17%	0.29%	0.27%	0.43%
GARCH Coefficient	1.41953	2.111401	2.845282	1.67851	1.870333	1.275542
Projected Co. RP	6.62%	13.11%	5.84%	6.09%	6.35%	6.77%
Risk-Free Rate (1)	3.58%	3.58%	3.58%	3.58%	3.58%	3.58%
PRPM Result	10.21%	16.69%	9.43%	9.67%	9.93%	10.36%
			Average for ACC Group	Staff Witness Cassidy'	s Water Sample	11.05%
			Average for RUC Group	O Witness Rigsby's Wa	ater Sample	11.32%

Notes:

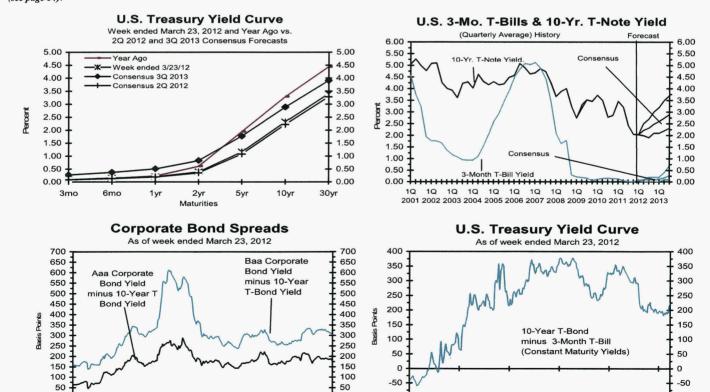
(1) Average forecast based upon six quarterly estimates of 30-year Treasury bonds per the consensus of nearly 50 economists reported in Blue Chip Financial Forecasts dated April 1, 2012 (page 2 of this Exhibit). The estimates are detailed below.

Q2 2012	3.30 %
Q3 2012	3.40
Q4 2012	3.50
Q1 2013	3.60
Q2 2013	3.80
Q3 2013	3.90
Average	3.58 %

Consensus Forecasts Of U.S. Interest Rates And Key Assumptions¹

	History							Cons	ensus	Foreca	sts-Qu	arterly	Avg.	
								Latest Q*		3Q	4Q	1Q	2Q	3Q
Interest Rates	Mar. 23	Mar. 16	Mar. 9	Mar. 2	Feb.	Jan.	Dec.	<u>10 2012</u>	<u>2012</u>	2012	2012	2013	2013	2013
Federal Funds Rate	0.15	0.12	0.11	0.09	0.10	0.08	0.07	0.10	0.1	0.1	0.1	0.1	0.2	0.3
Prime Rate	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.3	3.3	3.3	3.3	3.3	3.3
LIBOR, 3-mo.	0.47	0.47	0.47	0.48	0.50	0.57	0.56	0.51	0.5	0.4	0.4	0.5	0.5	0.6
Commercial Paper, 1-mo.	0.15	0.13	0.12	0.13	0.12	0.09	0.10	0.11	0.1	0.2	0.2	0.2	0.3	0.4
Treasury bill, 3-mo.	0.09	0.09	0.08	0.09	0.09	0.03	0.01	0.07	0.1	0.1	0.1	0.1	0.2	0.3
Treasury bill, 6-mo.	0.15	0.15	0.14	0.13	0.12	0.07	0.05	0.11	0.1	0.2	0.2	0.2	0.3	0.4
Treasury bill, 1 yr.	0.20	0.20	0.18	0.18	0.16	0.12	0.12	0.16	0.2	0.2	0.2	0.3	0.4	0.5
Treasury note, 2 yr.	0.39	0.36	0.31	0.30	0.28	0.24	0.26	0.29	0.4	0.4	0.5	0.6	0.7	0.8
Treasury note, 5 yr.	1.16	1.06	0.87	0.86	0.83	0.84	0.89	0.90	1.1	1.2	1.3	1.4	1.6	1.8
Treasury note, 10 yr.	2.32	2.21	2.00	1.97	1.97	1.97	1.98	2.04	2.2	2.3	2.5	2.6	2.7	2.9
Treasury note, 30 yr.	3.40	3.34	3.14	3.09	3.11	3.03	2.98	3.14	3.3	3.4	3.5	3.6	3.8	3.9
Corporate Aaa bond	4.09	4.05	3.88	3.82	3.85	3.85	3.93	3.90	4.0	4.1	4.2	4.3	4.4	4.5
Corporate Baa bond	5.34	5.28	5.11	5.08	5.14	5.23	5.25	5.20	5.3	5.3	5.4	5.5	5.5	5.6
State & Local bonds	4.01	3.95	3.84	4.72	3.66	3.68	3.95	3.76	3.9	4.0	4.2	4.2	4.3	4.4
Home mortgage rate	4.08	3.92	3.88	3.90	3.89	3.92	3.96	3.92	4.0	4.1	4.2	4.3	4.5	4.6
				Histor	y				Co	nsensı	is Fore	casts-Q)uarter	ly
	2Q	3Q	4Q	1Q .	2Q	3Q	4Q	1Q*	2Q	3Q	4Q	10	2Q	3Q
Key Assumptions	2010	2010	2010	2011	2011	2011	2011	2012	2012	2012	2012	2013	2013	2013
Major Currency Index	77.6	75.9	73.0	71.9	69.6	69.9	72.4	73.0	73.3	73.4	73.4	73.3	73.3	73.4
Real GDP	3.8	2.5	2.3	0.4	1.3	1.8	3.0	2.1	2.3	2.5	2.7	2.5	2.7	2.9
GDP Price Index	1.5	1.4	1.9	2.5	2.5	2.6	0.9	1.9	1.8	1.9	1.9	2.0	2.0	2.0
Consumer Price Index	-0.5	1.4	2.6	5.2	4.1	3.1	0.9	2.6	2.4	2.3	2.1	2.2	2.2	2.4

Forecasts for interest rates and the Federal Reserve's Major Currency Index represent averages for the quarter. Forecasts for Real GDP, GDP Price Index and Consumer Price Index are seasonally-adjusted annual rates of change (saar). Individual panel members' forecasts are on pages 4 through 9. Historical data for interest rates except LIBOR is from Federal Reserve Release (FRSR) H.15. LIBOR quotes available from The Wall Street Journal. Interest rate definitions are the same as those in FRSR H.15. Treasury yields are reported on a constant maturity basis. Historical data for the Fed's Major Currency Index is from FRSR H.10 and G.5. Historical data for Real GDP and GDP Chained Price Index are from the Bureau of Economic Analysis (BEA). Consumer Price Index (CPI) history is from the Department of Labor's Bureau of Labor Statistics (BLS). *Interest rate data for 1Q 2012 based on historical data through the week ended March 23rd. *Data for 1Q 2012 Major Currency Index also is based on data through week ended March 23rd. Figures for 1Q 2012 Real GDP, GDP Chained Price Index and Consumer Price Index are consensus forecasts based on a special question asked of the panelists this month (see page 14).



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ARIZONA WATER COMPANY



Docket No. W-01445A-11-0310

2011 RATE HEARING

For Test Year Ending 12/31/10

PREPARED

REBUTTAL TESTIMONY & EXHIBITS

OF

JOSEPH D. HARRIS

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3		Rebuttal Testimony of
4		Joseph D. Harris
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6	I.	Introduction and Purpose of Testimony
7	Q.	PLEASE STATE YOUR NAME, EMPLOYER AND OCCUPATION.
8	A.	My name is Joseph D. Harris. I am employed by Arizona Water Company (the
9		"Company") as Vice President and Treasurer.
10	Q.	ARE YOU THE SAME JOSEPH D. HARRIS THAT PREVIOUSLY PROVIDED
11		DIRECT TESTIMONY IN THIS MATTER?
12	A.	Yes.
13	Q.	HAVE YOU REVIEWED THE DIRECT TESTIMONY FILED BY THE OTHER
14		PARTIES TO THIS PROCEEDING?
15	Α.	Yes. I have reviewed the testimony of each of the witnesses of the Arizona
16		Corporation Commission's ("Commission") Utilities Division Staff ("Staff") and the
17		Residential Utility Consumer Office ("RUCO").
18	Q.	WHAT IS THE PURPOSE OF YOUR TESTIMONY?
19	A.	The purpose of my rebuttal testimony is to respond to the direct testimony of
20		Staff witnesses Jeffrey M. Michlik and Bentley Erdwurm, and RUCO witness
21		William A. Rigsby.
22	Q.	HOW IS YOUR TESTIMONY ORGANIZED?
23	A.	My testimony is presented in four sections including this introductory Section I.
24		In Section II, I present the Company's response to both Staff's and RUCO's
25	•	witnesses concerning the implementation of a Distribution System Improvement
26		Charge ("DSIC"). In Section III, I respond to Staff's testimony concerning the
27		consolidation of San Manuel, Oracle and SaddleBrooke Ranch into the Falcon
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¹ Arizona Corporation Commission Decision No. 71845, pg 95, lines 6-7.

Valley system. Finally, in Section IV I respond to Staff's recommendation to lower the amount of the Company's proposed Off-Site Facilities Fee.

II. Distribution System Improvement Charge

Q. WHAT FACTORS CAUSED THE COMPANY TO PROPOSE A DSIC IN THIS CASE?

A. In Decision No. 71845, the Commission ordered the Company to prepare a study on distribution system improvement charges and "utilize this information to inform further proposals in its future rate cases."

Q. WAS A DSIC STUDY PREPARED AND FILED WITH THE COMMISSION?

- A. Yes. A copy of the DSIC study was filed as a compliance item in Docket No. W-01445A-08-0440 and was also included as Exhibit JDH-3 to my direct testimony.
- Q. WERE THERE ANY OTHER REPORTS SUBMITTED WHICH SUPPORTED THE COMPANY'S DSIC PROPOSAL IN THIS CASE?
- A. Yes. The "Water Loss Reduction Program for Water Systems in the Eastern Group" report was filed as Exhibit FKS-10 to Mr. Schneider's direct testimony. That report presented a detailed analysis of the distribution infrastructure in the Superstition, Cochise and Falcon Valley systems and the need for substantial investment to replace aging and failing infrastructure.
- Q. DO YOU AGREE WITH BOTH MR. MICHLIK AND MR. RIGSBY THAT THE COMPANY'S WATER INFRASTRUCTURE REPLACEMENT PLAN, THAT SERVES AS THE BASIS FOR THE DSIC, IS FOR ROUTINE EXPENDITURES?
- A. No. The Company presented a detailed analysis of its Superstition, Cochise and Falcon Valley water distribution systems which showed that the Company needs to replace over 371,000 feet of aging and failing water mains, 3,850 failing plastic

service lines and 4,915 service lines on failing water mains at a cost of nearly \$67 million over the first ten-year construction phase. This represents a more than 500 percent increase over the amount of plant the Company has replaced in the previous decade and cannot be considered routine or ordinary. Company witness Pauline M. Ahern provides additional testimony and evidence supporting the fact that these capital expenditures are anything but ordinary in Sections III and IV of her rebuttal testimony.

- Q. IS \$67 MILLION WORTH OF WATER MAIN AND SERVICE LINE REPLACEMENTS IN THE SUPERSTITION, COCHISE AND FALCON VALLEY SYSTEMS SIGNIFICANT?
- A. Yes. To put the \$67 million in perspective, the Company invested approximately \$35 million designing and constructing arsenic removal facilities in its first phase of implementation for the entire Company. Staff and RUCO determined that the magnitude of the arsenic removal facility capital investment was extraordinary, and without a timely recovery mechanism, would have had a detrimental financial impact on the Company's viability. As a result, both Staff and RUCO supported the Company's Arsenic Cost Recovery Mechanism ("ACRM").
- Q. DID THE ACRM HELP TO MITIGATE THE DETRIMENTAL FINANCIAL IMPACT OF THE COMPANY'S ARSENIC REMOVAL FACILITY CAPITAL INVESTMENT?
- A. Yes. The ACRM helped mitigate the detrimental financial impact of the Company's extraordinary investment in arsenic removal facilities by partially addressing regulatory lag. In fact, the magnitude of the Company's investment in arsenic treatment facilities was such that even with the benefits afforded by the ACRM, the Company's debt ratio increased sharply during that time period due, in part, to the Company's inability to earn its authorized rate of return. This is illustrated graphically in the following chart:

Arizona Water Company Actual vs. Authorized Rate of Return & Debt Ratio



Assuming the Company had to undertake \$67 million worth of water main and service line replacements in the Eastern Group without a DSIC or similar mechanism designed to address regulatory lag by providing cash flows, the swings in the debt ratio and the disparity between earned and authorized returns depicted in the above graph would be significantly larger. To the extent the Company's ability to earn its authorized return is impaired, its financial integrity and ability to fund infrastructure projects are further compromised.

- Q. DOES THE \$67 MILLION FOR THE SUPERSTITION, COCHISE AND FALCON VALLEY SYSTEMS REPRESENT THE COMPANY'S ENTIRE AGING AND FAILING WATER MAIN AND SERVICE LINE REPLACEMENT NEEDS?
- A. No. As part of the Company's pending Western Group rate case application, the Company prepared and submitted a similar detailed report which documents the aging and failing water mains and service lines the Company needs to replace in

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those water systems. That report concluded that the investment required to replace aging and failing water mains and service lines within the Company's Pinal Valley water system over the first ten year construction phase would cost nearly \$41 million. Together, these two groups account for \$108 million of infrastructure replacement costs.

DOES THE \$108 MILLION REPRESENT THE COMPANY'S ENTIRE AGING Q. AND FAILING WATER MAIN AND SERVICE LINE REPLACEMENT NEEDS?

- No. The Company is developing a similar report for its Northern Group and A. anticipates those costs to be approximately \$25-30 million, placing the Company's total infrastructure replacement needs between \$133 and \$138 million. These totals are in addition to the routine and necessary utility plant investments which the Company plans for and constructs annually.
- HOW IS THE COMPANY PROPOSING TO IMPLEMENT THE \$67 MILLION Q. INVESTMENT TO REPLACE AGING AND FAILING WATER MAINS AND **SERVICE LINES?**
- As part of the Company's analysis and report that was completed and submitted with its rate case application, it developed a specific and detailed three-year plan comprising 52 water main and service line replacement projects totaling \$9.4 million. The three-year plan is the first step toward replacing the aging and failing water mains and service lines in the Superstition, Cochise and Falcon Valley systems.
- DO YOU AGREE THAT COMMISSION STAFF AND INTERVENORS WILL Q. NOT HAVE THE OPPORTUNITY TO LOOK CLOSELY AT THE PLANT ADDITIONS BEING PLACED IN SERVICE?
- The Company's DSIC proposal was patterned after the ACRM, which expressly provides Commission Staff and intervenors ample opportunity to review costs and to make whatever other investigations they deem necessary to conclude that the plant additions are necessary and prudent.

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Q. WILL THERE BE SIGNIFICANT TRANSMISSSION AND DISTRIBUTION MAINTENANCE EXPENSE SAVINGS AS RESULT INFRASTRUCTURE REPLACEMENTS?

- No. The Company has identified over 371,000 feet of water mains and 3,850 failing plastic service lines and 4,915 service lines on failing water mains that have reached the end of their useful lives and need to be replaced. Company has proposed an aggressive three-year plan to begin to replace these failing water mains and service lines; however, even with this aggressive plan it will still take over thirty years to replace the 371,000 feet of failing water mains identified in the study, and sixteen years to replace the 3,850 failing plastic service lines and 4,915 service lines on failing water mains. During the time needed to make these replacements, the remaining water mains will continue to age and will begin to experience the same types of age-related maintenance issues and increasing breaks and leaks as the water mains that are already identified for replacement.
- STAFF HAS PROPOSED AN ALTERNATIVE TO Q. THE DSIC. THE SUSTAINABLE WATER LOSS IMPROVEMENT PROGRAM ("SWIP"). THIS A SATISFACTORY SUBSTITUTE FOR THE DSIC?
 - No. Staff's proposal offers no regulatory rate relief. If adopted, it would simply allow the Company to defer depreciation expense for 24 months and to accrue an Allowance for Funds Used During Construction ("AFUDC") for 24 months. These deferrals are then subject to full regulatory review in a subsequent rate case and, if allowed, will then be amortized over 10 years. Staff's proposal is a step backward because it would delay recovery of the cost of service and lead to sharp increases in rates. More importantly, unlike the DSIC, Staff's proposal is not "credit supportive" in that it provides no additional cash flows necessary to attract capital. Without increased cash flows, the Company will be unable to increase its historical rates of infrastructure replacement.

Q. WHY IS IT NECESSARY THAT THE MECHANISM BE CREDIT SUPPORTIVE?

- As explained by Ms. Ahern in Sections III and IV of her rebuttal testimony, capital expenditures as large as those anticipated by the Company require significant financing. If the Company is unable to raise capital, it will be nearly impossible to invest in needed infrastructure. In order to raise capital, a credit supportive mechanism is necessary. A credit supportive mechanism is one that mitigates the negative effect that regulatory lag has on cash flows. This type of mechanism, when coupled with the ability to earn a sufficient rate of return, will help enable the Company to fund the construction of these significant and much-needed infrastructure replacements with a mixture of debt, equity and internally-generated funds, thereby avoiding the large swings in debt ratio and the disparity between earned and authorized returns depicted in the chart above. As stated above, to the extent the Company's ability to earn its authorized return is impaired, its financial integrity and ability to fund infrastructure projects are further compromised.
- III. Rate Consolidation
- Q. DO YOU AGREE WITH STAFF'S RECOMMENDATION TO MAINTAIN SAN MANUEL, ORACLE AND SADDLEBROOKE RANCH AS STAND ALONE SYSTEMS?
 - No. As discussed in my direct testimony, the Company has shown that these systems, which are in close proximity to each other and share common management, operating employees and customer service, fall within the guiding principles of consolidation identified in the Company's consolidation study docketed with the Commission and should be consolidated. Oracle and SaddleBrooke Ranch are physically interconnected and share water production and pumping resources. Staff witness Elijah O. Abinah, in his direct testimony in the Company's last general rate case, offered the following concerning interconnected systems:

"Q. When a company is physically interconnected, is it appropriate to have a STP²?"

"A. Yes. Staff believes that, when a company is physically interconnected, an STP is appropriate."

Therefore, according to Staff's own guidelines regarding rate consolidation, as set forth by the Assistant Director of the Commission's Utilities Division, these systems should be consolidated.

Q. WHAT WERE STAFF'S REASONS FOR REJECTING THE FALCON VALLEY CONSOLIDATION?

A. Staff states that it is rejecting consolidation of these systems because of the adverse impacts to San Manuel and SaddleBrooke Ranch customers associated with consolidation. However, Staff offered no evidence or explanation identifying any such impacts. It is difficult to analyze Staff's position on this issue because Staff's rate design fails to generate the revenue increase it recommends. However, in SaddleBrooke Ranch, Staff is recommending a revenue increase of \$126,882 which represents an increase of 108.35 percent over current revenues. In the Company's rebuttal testimony, the Company is recommending consolidated rates that would result in an increase of only 28.3 percent for customers in SaddleBrooke Ranch, which is several times less than Staff's recommendation.

Q. WHAT IS RUCO'S POSITION ON THE FALCON VALLEY CONSOLIDATION?

A. RUCO supports the consolidation of these three systems, concluding that "the Company proposed consolidation will not result in any economic harm to the ratepayers served by those operating systems"³.

² Single Tariff Pricing (STP") the use of a unified rate structure for multiple utility systems that are owned and operated by a single utility, but that may or may not be contiguous or physically interconnected.

³ Direct Testimony of William A. Rigsby, page 15, lines 9-11

IV. Off-Site Facilities Fee

- Q. DOES THE COMPANY AGREE WITH STAFF'S REVISION TO THE TARIFF
 LANGUAGE OF THE OFF-SITE FACILITIES FEE?
- A. Yes. The tariff language proposed by Staff is identical to that agreed to by all parties in the Company's Western Group general rate case settlement agreement.
- Q. DOES THE COMPANY AGREE WITH STAFF'S REVISION TO THE AMOUNT OF THE OFF-SITE FACILITIES FEE?
- A. No. The Company's calculation incorporated estimates of construction costs that would increase until the time that sufficient funds were available to construct the plant. Staff also did not address or consider the effects of delaying such construction; such as the need to add additional water supplies during the time that new customers receive service, but for which no additional supplies are available.
- Q. DID THE COMPANY PREPARE A TIMELINE THAT SHOWED HOW LONG IT
 WOULD TAKE TO ACCUMULATE SUFFICIENT FUNDS TO CONSTRUCT
 THE SUPERSTITION CAP TREATMENT PLANT?
- A. Yes. Exhibit JDH-7, included in my direct testimony, shows the projected construction cost as well as the amount of fees collected.
- Q. IF THE AMOUNT OF THE FEE IS LOWERED TO THE LEVEL PROPOSED BY STAFF, WILL THE COMPANY BE ABLE TO CONSTRUCT THE SUPERSTITION CAP TREATMENT PLANT BY 2028, AS SHOWN IN EXHIBIT JDH-7?
- A. No. Based on the Company's growth projections, fees collected at Staff's rates would be only \$5.7 million, compared to a projected required construction cost of \$13.4 million.
- Q. DID THE COMPANY USE THIS SAME METHODOLOGY IN ITS PROPOSAL FOR AN OFF-SITE FACILITIES FEE IN DOCKET NO. W-01445A-10-0517?

1	A.	Yes. The Company used the same methodology to project customers and
2		construction costs.
3	Q.	WAS THIS APPROACH ACCEPTED BY STAFF IN THAT DOCKET?
4	A.	Yes. The Company's proposed fee was part of the Settlement Agreement signed
5	:	by all parties, including Staff.
6	Q.	IF CUSTOMER GROWTH OCCURS MORE RAPIDLY, COULD THE
7		COMPANY POTENTIALLY OVER-COLLECT THE AMOUNT OF THE COST
8		OF CONSTRUCTING THE SUPERSTITION CAP TREATMENT PLANT?
9	A.	No. If customer growth occurred more quickly than projected, the contemplated
10		facilities could be constructed ahead of schedule. The tariff provides for the fee
11		to be discontinued once sufficient fees have been collected.
12	Q.	WHAT DO YOU RECOMMEND?
13	A.	That the Commission approve the amount of Off-Site Facilities Fee proposed by
14		the Company.
15	Q.	DOES THAT CONCLUDE YOUR REBUTTAL TESTIMONY?
16	A.	Yes.
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ARIZONA WATER COMPANY



Docket No. W-01445A-11-0310

2011 RATE HEARING

For Test Year Ending 12/31/10

PREPARED

REBUTTAL TESTIMONY & EXHIBITS

OF

JOEL M. REIKER

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ARIZONA WATER COMPANY

Rebuttal Testimony of

Joel M. Reiker

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Q. PLEASE STATE YOUR NAME, EMPLOYER, AND TITLE. 6

Introduction

- A. My name is Joel M. Reiker. I am employed by Arizona Water Company (the "Company") as Vice President – Rates and Revenues.
- ARE YOU THE SAME JOEL M. REIKER THAT PREVIOUSLY PROVIDED Q. **DIRECT TESTIMONY IN THIS PROCEEDING?**
- 11 Α. Yes.
- HAVE YOU REVIEWED THE DIRECT TESTIMONY FILED BY THE OTHER 12 Q. 13 PARTIES TO THIS PROCEEDING?
 - Yes. I have reviewed the testimony of each of the witnesses of the Arizona Α. Corporation Commission's ("Commission") Utilities Division Staff ("Staff") and the Residential Utility Consumer Office ("RUCO").
 - Q. WHAT IS THE PURPOSE OF YOUR REBUTTAL TESTIMONY?
 - The purpose of my rebuttal testimony is to respond to the direct testimony of Α. Staff witnesses Jeffrey M. Michlik and Bentley Erdwurm, and RUCO witnesses William A. Rigsby and Robert B. Mease.
 - **HOW IS YOUR TESTIMONY ORGANIZED?** Q.
 - My testimony is presented in five sections, including this introductory Section I. Α. In Section II, I present the Company's updated revenue requirement. In Section III. I address the rate base and respond to the direct testimony of Staff witness Mr. Michlik and RUCO witness Mr. Mease regarding this issue. In Section IV, I address the income statement and respond to Staff witness Mr. Michlik and RUCO witness Mr. Mease regarding this issue. In Section V, I address the rate

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design and respond to Staff witness Mr. Erdwurm and RUCO witnesses Messrs. Rigsby and Mease.

II. Revenue Requirement

- Q. PLEASE SUMMARIZE THE COMPANY'S PROPOSED REVENUE
 REQUIREMENT AND ASSOCIATED INCREASE AT THIS STAGE OF THE
 PROCEEDING, AS WELL AS THOSE OF STAFF AND RUCO.
- A. The proposed revenue requirements of the parties are summarized in the following table:

PROPOSED REVENUE REQUIREMENTS

	Company	Staff	RUCO
System	Rebuttal	Direct	Direct
Superstition	\$18,983,549	\$16,862,038	\$17,208,024
Cochise	4,008,556	3,639,678	3,701,453
San Manuel	1,223,565	1,227,957	1,258,405
Oracle	1,120,928	1,001,991	1,028,045
SaddleBrooke	244,673	243,985	222,600
Winkelman	133,953	116,941	121,149
Total Eastern Group	\$25,715,224	\$23,092,590	\$23,539,676

The proposed revenue requirements shown in the above table do not reflect any revenue shifting that would result from the implementation of consolidated rate designs. The Company has filed updated standard filing Rebuttal Schedules (A-1 through H-4) detailing the Company's rebuttal adjustments, updated revenue requirements and proposed rate design in Rebuttal Exhibit JMR-RB1. The parties' proposed revenue increases at this stage of the proceeding are shown below:

PROPOSED REVENUE INCREASES/(DECREASES)

	Company	Staff	RUCO
System	Rebuttal	Direct	Direct
Superstition	\$3,927,383	\$1,805,872	\$2,151,858
Cochise	705,007	336,129	397,905
San Manuel	276,037	280,429	310,877
Oracle	130,819	11,882	37,934
SaddleBrooke	127,571	126,882	105,498
Winkelman	31,855	14,843	19,050
Total Eastern Group	\$5,198,671	\$2,576,037	\$3,023,122

The proposed revenue increases shown in the table above do not reflect any revenue shifting that would result from the implementation of consolidated rate designs. Such revenue shifting is reflected on line 21 of Schedule A-1 Rebuttal (See Exhibit JMR-RB1) for the San Manuel, Oracle and SaddleBrooke systems, which the Company proposes to consolidate into a new rate system known as Falcon Valley.

III. Rate Base

- Q. PLEASE SUMMARIZE THE COMPANY'S, STAFF'S AND RUCO'S PROPOSED RATE BASES AT THIS STAGE OF THE PROCEEDING.
- A. The parties' proposed rate bases are shown in the following table:

PROPOSED RATE BASE

	Company	Staff	RUCO
System	Rebuttal	Direct	Direct
Superstition	\$50,432,117	\$50,303,626	\$50,029,487
Cochise	8,425,690	8,497,455	8,361,674
San Manuel	2,014,751	2,037,357	1,998,819
Oracle	2,497,996	2,453,855	2,474,853
SaddleBrooke	(116,014)	(114,888)	(175,628)
Winkelman	306,390	304,956	304,727
Total Eastern Group	\$63,560,931	\$63,482,361	\$62,993,932

Q. HOW DOES THE COMPANY PROPOSE TO CALCULATE THE REQUIRED OPERATING INCOME FOR THE SADDLEBROOKE RANCH SYSTEM GIVEN THE FACT THAT IT HAS NEGATIVE RATE BASE, AS SHOWN IN THE ABOVE TABLE?

A.

Because the SaddleBrooke Ranch system has negative rate base, determining the required level of operating income by multiplying the required rate of return by the rate base would result in rate levels that are designed to produce an operating loss. In order to avoid a situation where a utility is required to operate at a loss, the Company proposes that rates in the SaddleBrooke Ranch system be based on the assumption of zero operating income. This is the same approach taken by Staff in its direct testimony.

Q. HAS RUCO TAKEN THE SAME APPROACH?

A. No. As shown on Schedule RBM-1 of RUCO witness Mr. Mease's direct testimony, RUCO recommends that rates in the SaddleBrooke Ranch system be set at a level which produces a loss.

Q. DO YOU AGREE WITH RUCO'S APPROACH?

A. No. Although the Company's original application reflected negative operating income for the SaddleBrooke Ranch system, it is my understanding that the Commission does not generally require utilities with negative rate base to operate at a loss. Staff's direct testimony reflects this ratemaking treatment. Accordingly, the Company has incorporated this treatment into its proposal, as reflected in Exhibit JMR-RB1.

Response to the Direct Testimony of Staff Witness Jeffrey M. Michlik

Staff Rate Base Adjustment No. 1 - Retire Plant No Longer in Service

Q. WHAT IS STAFF RATE BASE ADJUSTMENT NO. 1?

According to pages 12 (lines 20 – 26) and 13 (lines 1 – 8) of Mr. Michlik's direct testimony, Staff claims that two wells in the Superstition system (Miami Wells No. 8 and 17) that were out of service during the Test Year. Staff recommends that these wells be retired, and proposes to do so by crediting Utility Plant in Service ("UPIS") by an amount equal to the total original cost of these wells, \$46,890, and debiting Accumulated Depreciation by the same amount.

Q. DOES THE COMPANY ACCEPT STAFF'S ADJUSTMENT?

No. Only one of these wells, Miami Well No. 8, is currently out of service and should be retired. As explained by Company witness Mr. Schneider in his rebuttal testimony, the submersible pump and motor at Miami Well No. 17 was replaced in March 2012 and the well is currently in service. A copy of the proposal/contract to repair this well was provided in response to Staff data request JMM 9-2 on February 13, 2012 (See Exhibit JMR-RB2). Because Miami Well No. 17 is currently in service, the Company only accepts the portion of Staff Rate Base Adjustment No. 1 related to Miami Well No. 8, the original cost of which is \$9,354. Thus, the Company will accept a pro forma adjustment to credit UPIS and debit Accumulated Depreciation by \$9,354.

Staff Rate Base Adjustment No. 2 - Capitalize Water Testing Expense

- Q. DOES THE COMPANY ACCEPT STAFF RATE BASE ADJUSTMENT NO. 2

 TO CAPITALIZE \$9,510 IN WATER TESTING EXPENSES IN THE

 SADDLEBROOKE RANCH SYSTEM?
- A. Yes. As explained by Staff witness Mr. Michlik on page 13 (lines 10 21) of his direct testimony, these costs relate to the initial startup of a well in the SaddleBrooke Ranch system, which were erroneously charged to water testing expense in the San Manuel system. Because these initial/startup costs are nonrecurring in nature, they are appropriately capitalized and charged to UPIS. Staff Income Statement Adjustment No. 13 (San Manuel system), discussed below in Section IV of my rebuttal testimony, is the countervailing adjustment to Staff Rate Base Adjustment No. 2.

Staff Rate Base Adjustment No. 3 – Working Cash

Q. WHAT IS STAFF RATE BASE ADJUSTMENT NO. 3?

A. Staff Rate Base Adjustment No. 3 is an adjustment to reduce working cash in the Eastern Group by \$321,728. Staff arrives at its adjustment by revising the

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Company's lead/lag study to reflect Staff's adjusted levels of expenses and by removing the entire cost associated with common equity from the calculation.

- DOES THE COMPANY ACCEPT STAFF RATE BASE ADJUSTMENT NO. 3? Q.
- A. No, the Company does not accept Staff's adjustment.
- Q. DOES THE COMPANY AGREE THAT ITS LEAD/LAG STUDY AND, ULTIMATELY, ITS WORKING CASH ALLOWANCE SHOULD REFLECT THE ADJUSTED LEVELS OF EXPENSES ADOPTED BY THE COMMISSION IN THIS PROCEEDING?
- Α. Yes. However, to the extent the Company does not agree with Staff's proposed expense levels, which I address below in Section IV of my rebuttal testimony, the Company does not accept Staff's recommended working cash allowance.
- WHY DID THE COMPANY INCLUDE AN EQUITY COST COMPONENT IN ITS Q. **LEAD/LAG STUDY?**
 - The Company included the equity cost component of operating income in its calculation of required working cash for the sake of consistency. In recent years, both Staff and RUCO have made a practice of including the debt cost component of operating income in the calculation of required working cash. However, if the cost associated with the debt component of operating income is included in the calculation of required working cash, then a corresponding adjustment to include the cost associated with the equity component should be made as well. The cost associated with equity is as much a cost of providing service as the cost associated with debt, and the Company should be compensated for the additional investment related to the time it must wait to recover this cost. The equity portion of the cost of capital should be recognized in the lead/lag study with a full revenue lag and a zero payment lead.
- Q. IS IT THE COMPANY'S POSITION THAT IF ONE COMPONENT OF THE OPERATING INCOME IS RECOGNIZED IN THE CALCULATION OF

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REQUIRED WORKING CASH, THEN ALL COMPONENTS SHOULD BE **RECOGNIZED?**

Yes. The *entire* amount of a utility's operating income finances its rate base. Because an appropriate estimate of the required working cash associated with this operating income (which includes both the debt and equity components) has little effect on the rate base of a utility with a well-balanced capital structure, the Company is indifferent to its inclusion in the lead/lag study. However, if only the portion due creditors is included in the lead/lag study and the portion due shareholders is ignored, the measurement of a utility's total rate base will be far less accurate than if operating income had been excluded from the lead/lag study altogether. In other words, the Company should not be penalized, as Staff and RUCO propose to do, for maintaining a balanced capital structure.

Response to the Direct Testimony of RUCO Witness Robert B. Mease

RUCO Rate Base Adjustment No. 1 – True-up Post Test Year Plant

WHAT IS RUCO RATE BASE ADJUSTMENT NO. 1? Q.

RUCO Rate Base Adjustment No. 1 is an adjustment to true-up Post-Test Year plant to reflect the actual costs incurred by the Company for each project in the Eastern Group. As explained by RUCO witness Mr. Mease on page 11 (lines 4 - 11) of his direct testimony, the Company's original application included estimated costs for certain Post-Test Year plant projects. Throughout the course of discovery, the Company provided Staff and RUCO with the actual costs of these projects as they became available. RUCO Rate Base Adjustment No. 1 reduces Post-Test Year plant by \$176,531, and reflects the Company's ability to efficiently complete these projects under budget.

DOES THE COMPANY ACCEPT RUCO'S ADJUSTMENT? Q.

A. Yes, it does.

RUCO Rate Base Adjustment No. 2 – Utility Plant Reconciliation

Q. WHAT IS RUCO RATE BASE ADJUSTMENT NO. 2?

A. RUCO Rate Base Adjustment No. 2 is a \$51,738 reduction to UPIS in the SaddleBrooke Ranch system. According to pages 11 (lines 12 – 19) and 12 (lines 1 – 16) of Mr. Mease's direct testimony, RUCO requested, and the Company provided, plant additions, retirements and adjustments for each system in the Eastern Group. RUCO used this information to reconcile actual UPIS levels with those reported in the Company's application. The result of RUCO's analysis, an un-reconciled difference of \$51,738 in the SaddleBrooke Ranch system, is the basis of RUCO Rate Base Adjustment No. 2.

Q. DOES THE COMPANY ACCEPT RUCO'S ADJUSTMENT?

No. After reviewing the UPIS activity provided to Staff and RUCO in response to data requests, the Company discovered that it omitted all plant additions made in the SaddleBrooke Ranch system during 2007. Those 2007 plant additions account for the \$51,738 un-reconciled difference between the actual balance of UPIS calculated by RUCO, and the balance reported in the Company's application. Upon making this discovery, the Company promptly supplemented its response to Staff Data Request JMM 2.45 on March 16, 2012 (See Exhibit JMR-RB3), providing a breakdown of the \$51,738 in plant additions made in the SaddleBrooke Ranch system during 2007. The Company recognizes the error which resulted in RUCO's pro forma adjustment, and requests that RUCO withdraw its pro forma adjustment in light of the additional/supplemental information the Company already provided.

RUCO Rate Base Adjustment No. 3 - Working Cash

Q. WHAT IS RUCO RATE BASE ADJUSTMENT NO. 3?

A. RUCO Rate Base Adjustment No. 3 is similar to Staff Rate Base Adjustment No. 3 in that RUCO has revised the Company's lead/lag study to reflect its own adjusted expenses. Like Staff, RUCO has also removed the entire cost associated with common equity from the calculation and, unlike Staff's

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adjustment, RUCO has applied 46 net lag days to the payment of common stock dividends.

Q. DOES THE COMPANY ACCEPT RUCO'S ADJUSTMENT?

- A. No. The Company does not accept this adjustment for the reasons discussed above with respect to Staff Rate Base Adjustment No. 3.
- Q. DO YOU AGREE WITH MR. MEASE'S ASSERTION ON PAGE 15 (LINES 8 -12) OF HIS DIRECT TESTIMONY THAT STOCKHOLDERS ARE ONLY COMPENSATED WHEN THEY RECEIVE DIVIDEND PAYMENTS OR WHEN THEY SELL THEIR STOCK?
 - No. I disagree with Mr. Mease's assertion that stockholders only receive compensation in the form of dividends or funds from the sale of their stock. Stockholders receive compensation in the form of a return (either positive or negative) on their investment in exchange for the risk they incur in making their capital available to the utility. This "compensation" is earned every day service is rendered, but the utility must wait approximately 30 days to collect the actual As I explained above, this 30-day waiting period represents an additional investment on behalf of shareholders. As a result, the Company cannot accept RUCO's proposal to include in the lead/lag study only dividend payments with a net 46-day expense lag.

Other Rate Base Issues

Updated Working Cash - Rebuttal

- HAS THE COMPANY UPDATED ITS LEAD/LAG STUDY TO REFLECT ANY Q. ADDITIONAL CHANGES OR ADJUSTMENTS MADE TO ITS TEST YEAR OPERATING EXPENSES AND OTHER COSTS AT THIS STAGE OF THE PROCEEDING?
- The Company's updated lead/lag study is shown in the Appendix to Schedule B-5 Rebuttal (See Exhibit JMR-RB1), and reflects the Company's adjusted Test Year expenses and capital costs at this stage of the proceeding.

IV. Income Statement

Response to the Direct Testimony of Staff Witness Jeffrey M. Michlik

Staff Income Statement Adjustment No. 1 – Unbilled Expenses

Q. WHAT IS STAFF INCOME STATEMENT ADJUSTMENT NO. 1?

A. Staff Income Statement Adjustment No. 1 decreases Test Year operating expenses in the Eastern Group by \$57,470 by adding back the Company's net unbilled expense accounting accruals, which the Company removed in its application by proposing Income Statement Adjustment IS-2, discussed on page 11 (lines 1 – 13) of my direct testimony.

Q. DOES THE COMPANY ACCEPT STAFF INCOME STATEMENT ADJUSTMENT NO. 1?

A. Yes, the Company accepts Staff's adjustment.

Staff Income Statement Adjustment No. 2 - Fleet Fuel Expenses

Q. WHAT IS STAFF INCOME STATEMENT ADJUSTMENT NO. 2?

A. Staff Income Statement Adjustment No. 2 recalculates the Company's pro forma adjustment related to the cost of gasoline used to operate its fleet of service vehicles (Income Statement Adjustment IS-15). According to page 19 (lines 13 – 14) of Mr. Michlik's direct testimony, Staff recalculated the Company's pro forma adjustment by applying the average cost of gasoline for the 12 months ending December 2011, thereby reducing the Company's pro forma adjustment, which relied on the prevailing price of gasoline as of April 2011, by a total of \$18,895 in the Eastern Group.

Q. DOES THE COMPANY ACCEPT STAFF'S ADJUSTMENT?

A. No. The Company does not accept Staff's adjustment because the price of gasoline has risen significantly higher than the 12-month average price of \$3.38 per gallon that Staff relied upon when recalculating the Company's pro forma adjustment. In fact, on the date Staff and RUCO filed their direct testimony in this proceeding, March 13, 2012, the actual price of regular gasoline in Arizona

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averaged \$3.851 per gallon, \$0.67 higher than what Mr. Michlik reports was the "current" price of gasoline (\$3.18 per gallon) on page 19 (lines 10 - 11) of his direct testimony. This difference represents an actual cost of providing service in the Eastern Group that is over \$30,000 higher than what Staff recommends the Company be allowed to recover in this proceeding.

WHAT PRICE PER GALLON OF GASOLINE DID THE COMPANY USE WHEN CALCULATING ITS ORIGINAL PRO FORMA ADJUSTMENT?

- The Company relied on a price of \$3.671 per gallon which, as stated above, was the average price of regular gasoline in Arizona as of April 19, 2011. As of March 20, 2012, the average price had risen to \$3.887 per gallon, an increase of \$0.216 per gallon, representing over \$14,000 in additional costs above the level proposed by the Company in its application.
- ARE PER-GALLON GASOLINE PRICES EXPECTED TO DECREASE TO Q. THE LEVEL UTILIZED BY STAFF IN RECALCULATING THE COMPANY'S PRO FORMA ADJUSTMENT?
- Α. No. Contrary to Staff's assertion, the price of gasoline is expected to remain at a level that is significantly higher than the average price per gallon during the 12 months ending December 2011. According to the U.S. Energy Information Administration's ("EIA") March 6, 2012, Short-Term Energy Outlook, the average price of regular gasoline in the U.S. is expected to average \$3.79 and \$3.72 per gallon in 2012 and 2013, respectively, compared to \$3.53 per gallon in 2011:

EIA expects regular-grade motor gasoline retail prices to average \$3.79 per gallon in 2012 and \$3.72 per gallon in

2013, compared with \$3.53 per gallon in 2011. During the April through September summer driving season this year.

prices are forecast to average about \$3.92 per gallon with a peak monthly average price of \$3.96 per gallon in May (See

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Exhibit JMR-RB4).

Expenses

4 percent below the national average (as was the case during 2011), the Company's original pro forma adjustment, including the fuel cost assumptions upon which it was based, is more reasonable than Staff's adjustment. Given the known and measurable evidence concerning current gasoline prices discussed above and the available information concerning future prices provided in Exhibit JMR-RB4, the Commission should adopt the Company's original fleet fuel adjustment in this proceeding.

Staff Income Statement Adjustment No. 3 – Pumping and T&D Maintenance

Assuming the average price of gasoline in Arizona remains approximately

Q. WHAT IS STAFF INCOME STATEMENT ADJUSTMENT NO. 3?

- A. Staff Income Statement Adjustment No. 3 reverses the Company's adjustment to normalize Pumping and Transmission & Distribution ("T&D") maintenance expenses (Income Statement Adjustment IS-11). Staff's adjustment reduces total operating expenses in the Eastern Group by \$548,218.
- Q. WHAT BASIS DOES STAFF PROVIDE FOR REVERSING THE COMPANY'S ADJUSTMENT?
- A. According to Mr. Michlik on page 21 (lines 4 9) of his direct testimony, Staff does not believe the Company's pro forma Pumping and T&D maintenance expenses are known or measurable and disagrees (lines 13 21) with the regression analysis of historical costs the Company used to arrive at a normalized level of Pumping and T&D maintenance expenses. Finally, Staff concludes, on page 22 (line 18) of Mr. Michlik's direct testimony, that the Test Year levels of Pumping and T&D maintenance expenses were not abnormally low.
- Q. HOW DO YOU RESPOND TO STAFF'S CLAIM THAT THE ESTIMATES
 UPON WHICH THE COMPANY BASED ITS PRO FORMA PUMPING AND T&D
 MAINTENANCE EXPENSES ARE NOT KNOWN AND MEASURABLE?

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The Commission should find that the known and measurable standard is met when, as in this case, the Company provides analytical evidence of a known and documented pattern of change. Given the documented long-term pattern of increasing infrastructure-related costs and the general consensus that water utilities operate in a rising cost industry, the Company's pro forma Pumping and T&D maintenance expenses are clearly known and measurable. The authors of Accounting for Public Utilities provide further explanation of this standard:

The idea of a known change in the ratemaking framework should not be that the change is in an absolute or unchangeable form, but rather that there is a known condition or a known pattern of change in the operations. While the term "known change" may suggest something in the past, it is generally not so limited by regulators. For example, the rationale for allowing adjustments for prospective wage increases which are under a contractual arrangement is that contractual agreements have a high probability of occurring. The problem of inflation and its impact on a company's various operating costs has just as high a degree of probability as has the wage In basic character, no difference exists. Regulators "know" that the wages will be increased. They should "know" that various non-contractual areas of costs utility will also increase. There is no incurred by the reason to believe that wage contracts will not be fulfilled, and similarly there may be no reason to believe that inflation patterns are going to change significantly in the time frame The "known" quality applies used for setting rates. equally to activities with contracted price adjustments and those activities faced with general price changes.1 (emphasis added)

Such a "known" condition or pattern of change in operations is illustrated in the following chart of T&D maintenance costs over time:

¹ Hahne, Robert L., Gregory E. Aliff & Deloitte & Touche LLP. Accounting for Public Utilities. 2004. p. 7-10.

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\$40.00

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Arizona Water Co. - T&D Maintenance Cost Per

Customer

Q. WHAT ARGUMENT DOES MR. MICHLIK MAKE REGARDING THE REGRESSION ANALYSIS PERFORMED BY THE COMPANY FOR THE PURPOSE OF CALCULATING ITS ADJUSTMENT?

A. On page 21 (lines 13 – 14) of his direct testimony, Mr. Michlik claims the regression analysis performed by the Company is invalid on statistical grounds, and that a more appropriate analysis would have only examined the four years ending with the Test Year, rather than the 11 years utilized by the Company in its analysis.

Q. WOULD A FOUR-YEAR REGRESSION ANALYSIS BE APPROPRIATE?

A. No. On pages 16 (lines 4 – 27) and 17 (lines 1 – 5) of my direct testimony I explained how, as a result of cost-cutting measures implemented by the Company in 2008, the Test Year levels of Pumping and T&D maintenance expenses were abnormally low and not representative of the level of costs that

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 would be prudently incurred going forward. As a result, a statistical analysis of the four years ending with the Test Year tells the Commission nothing about the long-term pattern of infrastructure-related costs. The appropriate statistical method of measuring this long-term pattern for purposes of calculating a normalizing adjustment is to perform some type of time-series analysis, such as the regression analysis performed by the Company, which captures the time period in which the trend is present. Analyzing only the four-year period ending with the Test Year would simply show the extent to which the Company has temporarily cut costs, and fails to account for the fact that infrastructure-related costs exhibit a long-term increasing trend.

The Company's analysis is a conservative analysis in that it examined all years from 2000 through 2010, including the period when the Company was actively cutting its costs, and therefore does not exclude any abnormal years which would lower the regression coefficient and, consequently, the statistical validity and significance of the analysis. The Commission should not rely on Staff's analysis of only four years ending with the Test Year, years which were abnormally low.

Q. DOES STAFF GENERALLY SUPPORT NORMALIZING ADJUSTMENTS?

A. Yes. According to Mr. Michlik on page 22 (lines 9 – 14) of his direct testimony, "Staff usually performs a five-year historical analysis of operating expenses to identify accounts that are potential expense normalization candidates." He goes on to conclude that the Test Year levels of Pumping and T&D maintenance expenses were not abnormally low.

Q. DO YOU AGREE WITH STAFF'S METHOD OF IDENTIFYING ABNORMALLY LOW OR HIGH EXPENSES?

No. Staff's method of identifying abnormally high or low expenses by looking at five-years' worth of expense levels is over-simplified and leads to incorrect conclusions regarding certain classes of expenses, such as infrastructure-related

expenses, which increase over time. Despite the fact that Staff's own simplified method appears to identify the Company's Pumping and T&D maintenance expenses as candidates for normalization, Mr. Michlik chose not to normalize them.

- Q. HOW DID STAFF ARRIVE AT THE CONCLUSION THAT THE TEST YEAR
 LEVEL OF PUMPING AND T&D MAINTENANCE EXPENSES WERE NOT
 ABNORMALLY LOW?
- After acknowledging that Pumping and T&D maintenance expenses have exhibited a downward trend in recent years, Mr. Michlik states, on page 22 (lines 19 20) of his direct testimony, that "a downward trend could represent improved operating efficiencies." But conversely, on pages 21 (lines 23 26) and 22 (line 1) of his direct testimony, he suggests that the Company has not adequately maintained its pumping and T&D facilities. As I explained above, water utilities operate in a rising-cost industry. The Company has every intention of increasing, as needed, the level of resources devoted to maintenance. The cost-reduction efforts implemented by the Company beginning in 2008 were in response to a transitory economic cycle, and simply cannot be sustained without experiencing the types of long-term negative consequences cited by Mr. Michlik.
- Q. HOW DO YOU RESPOND TO MR. MICHLIK'S CLAIM ON PAGE 22 (LINES 1 6) OF HIS DIRECT TESTIMONY THAT IMPLEMENTING COST-CUTTING MEASURES RATHER THAN CUTTING SHAREHOLDER DIVIDENDS "DOES NOT APPEAR TO PROVIDE EQUAL CONSIDERATION FOR RATEPAYERS AND SHAREHOLDERS?"
- A. I disagree. In fact, the Company's Board acted quickly in the first quarter of 2008 to freeze dividends in an act that reflected its assessment of the economic environment at that time. The negative financial effects that can result from a decision to *cut* dividends can be more significant than any short-term, recession-related cost-cutting efforts. This, presumably, is why companies such as

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Pinnacle West Capital (parent of Arizona Public Service Co.) and other Arizona utilities, while still filing rate cases, did *not* cut dividend payments in response to the economic downturn beginning in 2008.

Q. WHAT IMPACT WILL STAFF'S RECOMMENDATION, IF ADOPTED BY THE COMMISSION, HAVE ON THE COMPANY AND ITS CUSTOMERS?

As stated above, the Test Year levels of Pumping and T&D maintenance expenses were abnormally low and not representative of the level of costs that will be prudently incurred going forward. If Staff's recommendation is adopted by the Commission in this proceeding, rates will have been set below the cost of service, thereby limiting cash flow that would otherwise be available to either replace or repair aging infrastructure. Aside from the question of whether such rates would be fair and reasonable, this result is particularly troublesome for customers in light of Staff's recommendation, discussed on pages 32 (line 20) through 37 (line 23) of Mr. Michlik's direct testimony, that the Commission deny the Company's proposed Distribution System Improvement Charge ("DSIC") and instead authorize accounting deferral of the post-in-service capital costs associated with certain T&D system improvements. In Section X of his direct testimony, Company witness Mr. Schneider discussed the massive costs associated with replacing aging infrastructure in systems such as Bisbee and In light of the evidence presented by Mr. Schneider, which remains unchallenged, Staff's recommendations are, quite simply, a recipe for rate shock. This was a result that regulatory commissions in the 1970s intended to avoid when they took steps to avoid the abnormally high accumulation of construction financing costs (e.g., AFUDC) on massive construction projects, such as nuclear power plants.

Staff Income Statement Adjustment No. 4 – Water Testing Expense

Q. WHAT IS STAFF INCOME STATEMENT ADJUSTMENT NO. 4?

Staff Income Statement Adjustment No. 4 is a \$9,510 reduction to Water Treatment expense in the San Manuel system. As I discussed in Section II of my rebuttal testimony above (Staff Rate Base Adjustment No. 2), these costs relate to the initial startup of a well in the SaddleBrooke Ranch system that were erroneously charged to water testing expense in the San Manuel system. Because these initial/startup costs are nonrecurring in nature, they are appropriately reclassified and charged to UPIS.

Q. DOES THE COMPANY ACCEPT STAFF'S ADJUSTMENT?

A. Yes, it does.

Staff Income Statement Adjustment No. 5 – BMP Expenses

Q. WHAT IS STAFF INCOME STATEMENT ADJUSTMENT NO. 5?

A. Staff Income Statement Adjustment No. 5 reverses the Company's pro forma adjustment (Income Statement Adjustment IS-14) to recognize the incremental cost of implementing additional Best Management Practices ("BMP") in the Superstition system, as ordered by the Commission in Decision No. 71845, dated August 24, 2010. Staff's adjustment reduces Administrative & General expense in the Superstition system by \$6,850. Staff recommends that the Company be allowed to defer its BMP costs for consideration of recovery in a future rate case.

Q. DOES THE COMPANY ACCEPT STAFF'S ADJUSTMENT?

20 A. Yes, it does.

Staff Income Statement Adjustment No. 6 – Rate Case Expense

Q. WHAT LEVEL OF RATE CASE EXPENSE DOES STAFF RECOMMEND?

A. According to page 27 (lines 16 – 22) of Mr. Michlik's testimony, Staff recommends total rate case expense of \$246,070, recovered over three years.

Q. DOES THE COMPANY ACCEPT STAFF'S RECOMMENDED RATE CASE EXPENSE?

A. No. The Company does not accept Staff's recommended rate case expense in this proceeding. Staff's recommendation is, on its face, unreasonable simply

because it is lower than the \$250,000 in rate case expense approved for the Company's Eastern Group in Decision No. 66849, which used a 2001 test year, as well as its Western Group in Decision No. 68302, which used a 2003 test year. Further, Staff's recommendation is only \$29,000 higher than the amount of rate case expense approved for the Company's Northern Group (\$217,000) in Decision No. 64282, dated December 28, 2001, in which the test year used was 11 years earlier than the test year in this case, and concerned total revenues and rate base that were less than one-third of those in the instant case.

Putting Commission decisions aside, Staff's recommendation is not even consistent with its own recommendations in prior cases, particularly the Company's last Eastern Group rate case. In that proceeding, Staff recommended total rate case expense of \$257,550, over \$11,000 more than what Mr. Michlik recommends in this case.

In the Company's last Western Group rate case, Staff recommended total rate case expense of \$225,000, citing the fact that the Western Group was "smaller than the Eastern Group" had been at the time of its 2001 test year rate case.² In terms of net plant, the Western Group was \$17 million smaller than the Eastern Group was at the time of its 2001 test year rate case. Now, the Eastern Group is over \$43 million larger than it was in its 2001 test year rate proceeding, yet Staff recommends lower rate case expense. Contrary to what Staff believes, costs have increased, not decreased, over the past decade.

Q. DOES STAFF EXPLAIN HOW IT ARRIVED AT ITS RECOMMENDED LEVEL OF RATE CASE EXPENSE IN THIS CASE?

A. Yes. According to page 27 (lines 13 – 22) of Mr. Michlik's direct testimony, Staff seeks to allocate the amount of rate case expense incurred up to four years ago by the Company in its last total company rate case, \$616,199, to each of the

² Decision No. 68302, page 27, lines 17-18.

Company's water systems to arrive at a level of rate case expense applicable to the Eastern Group in this proceeding.

Q. IS STAFF'S METHOD REASONABLE?

- A. No. Staff's method of relying on the Company's most recent total company rate case is an apples-to-oranges comparison in that it fails to recognize the fact that certain costs, such as those associated with the use of expert witnesses, do not decrease with the size of the rate filing. A more appropriate comparison would be the amount incurred in the Company's most recent Eastern Group rate case and, to a lesser extent, its most recent Western or Northern Group rate cases, with an appropriate adjustment for inflation.
- Q. HOW DOES THE COMPANY RESPOND TO MR. MICHLIK'S SUGGESTION ON PAGE 27 (LINES 2 5) OF HIS DIRECT TESTIMONY THAT THE COMPANY SHOULD ONLY BE ALLOWED TO RECOVER A PORTION OF ITS OVERALL RATE CASE EXPENSE BECAUSE IT COULD HAVE, AND SHOULD HAVE, FILED A TOTAL COMPANY RATE CASE?
- A. In 1992, the Commission expressly authorized the Company to file general rate cases for its individual groups as part of Decision No. 58120, dated December 23, 1992. Page 33 (lines 19-26) of that decision states:

"The filing of one rate application for all of the individual water utilities under Arizona Water's jurisdiction has proven to be unwieldy and inefficient. Processing 18 simultaneous rate cases is a burdensome, time consuming task for the parties and the Commission. In the interest of allowing a more thorough review to be undertaken while at the same time reducing regulatory lag, we will adopt the three-group concept. Arizona Water may file an individual rate application for each group as needed."

Nowhere in the above-referenced decision did the Commission state that any future rate case expense allowance should be anything less than the actual costs that are prudently incurred. Mr. Michlik appears to suggest that a

significant portion of the Company's rate case expense is not prudently incurred because, in his opinion, the Company should have filed a total company rate case. This suggestion conflicts with the Commission's finding in Decision No. 58120.

- Q. DID THE COMPANY FILE ANY INDIVIDUAL GROUP RATE CASE
 APPLICATIONS AFTER THE COMMISSION ISSUED DECISION NO. 58120?
- A. Yes. As stated above, the Company filed three individual group rate case applications for its Northern, Eastern, and Western Groups as follows:

Northern Group Rate Case – Docket No. W-01445A-00-0962 filed in 2000 Eastern Group Rate Case – Docket No. W-01445A-02-0619 filed in 2002 Western Group Rate Case – Docket No. W-01445A-04-0650 filed in 2004

- Q. DID STAFF RAISE ANY CONCERNS OR OBJECTIONS ABOUT THE COMPANY FILING THREE INDIVIDUAL GROUP RATE CASE APPLICATIONS IN LIEU OF A TOTAL COMPANY RATE APPLICATION IN ANY OF THOSE PROCEEDINGS?
- A. No. Nor did Staff recommend in any of the above individual group rate cases that the Company only be allowed to recover a portion of its rate case expense because, in Staff's opinion, the Company should have filed a total company rate case.
- Q. HAVE RECENT COMPANY RATE PROCEEDINGS SHOWN HOW COMPLEX,
 UNWIELDLY, AND INEFFICIENT A COMPANY-WIDE RATE APPLICATION
 CAN BE?
- A. Yes. The Company's most recent total company rate case (Docket No. W-01445A-08-0440) was filed on August 22, 2008, and was decided by the Commission on August 25, 2010, taking over 24 months to complete, longer than any other general rate case application during this same time period. The

Company believes this longer time frame was largely due to the complexity and inefficiency of a Company-wide rate application.

Q. HOW DOES THAT TIMEFRAME COMPARE WITH THE COMPANY'S PREVIOUS INDIVIDUAL GROUP RATE APPLICATIONS?

A. The Company's most recent total company rate case took nearly twice as long to complete as any of its most recent individual group rate applications. The Commission's observations about the efficiencies of filing an application for an individual group and the complexities, regulatory lag, and unwieldy nature of processing a companywide general rate case are clearly borne out by the overall timeline of processing the most recent four general rate cases in the table below:

Subject of Rate Case	Docket Number and Date Filed	Time to Complete Rate Case
Northern Group	W-01445A-00-0962 - November 22, 2000	401 Days
Eastern Group	W-01445A-02-0619 – August 14, 2002	443 Days
Western Group	W-01445A-04-0650 – September 8, 2004	410 Days
Total-Company	W-01445A-08-0440 - August 22, 2008	733 Davs

Q. HOW DO THE INEFFICIENCIES ILLUSTRATED IN THE TABLE ABOVE TRANSLATE INTO UNRECOVERED COSTS?

A. As stated above, the Company filed its most recent total company rate case on August 24, 2008. The Company's application was found sufficient on October 15, 2008, and the rates approved in that proceeding (Decision No. 71845) went into effect on July 1, 2010. From the time new rates were expected to have gone into effect, based on Title 14 (Chapter 2, Section 103) of the Arizona Administrative Code, until the time new rates actually went into effect, the Company's shareholders funded over \$2.7 million of the overall cost of providing

service.³ Also as a result of the length of time it took to process the Company's most recent total company rate case, a portion of the cost of preparing, filing and processing that case will not be recovered by the time the rates established in this proceeding go into effect. For this reason, the Company included this unrecovered portion, \$17,247, in its estimate of total rate case expense in this proceeding. Staff's proposed rate case expense does not account for these costs.

Based on the foregoing discussion and evidence, the Company should not be criticized for filing an individual group rate application when experience shows that filing a total company application significantly increases regulatory lag, further preventing the Company from recovering its cost of providing service.

- Q. DID THE COMPANY PROVIDE STAFF OR RUCO WITH ANY DOCUMENTATION SUPPORTING THE COMPANY'S ESTIMATE OF RATE CASE EXPENSE IN THIS PROCEEDING?
- A. Yes. The Company provided a detailed breakdown of its estimated rate case expense, as well as a summary of actual charges to date, in its response to RUCO Data Request 1.27, which is attached hereto as Exhibit JMR-RB5. The Company also provided Staff with a copy of the same responses, including all of the associated documentation.
- Q. DID STAFF OR RUCO CHALLENGE THE REASONABLENESS OF THE COMPANY'S ESTIMATE OR ITS ACTUAL COSTS INCURRED TO DATE?
- A. No. They do not challenge the Company's original estimate or its actual costs. RUCO and Staff simply offer their own theoretical "back of the envelope" calculations. That approach is not based on any evidence of the Company's cost to present this rate case.

³ Overall revenue increase approved in Dec. 71845: \$9,153,659, less \$5,411,702 in surcharges in effect at the time: \$3,741,957, or approximately \$10,250/day, times 264 days (624 days from date of sufficiency until date new rates went into effect, less 360-day time-clock)

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A.

- Q. HOW DOES THE COMPANY RESPOND TO MR. MICHLIK'S STATEMENT ON PAGES 27 (LINES 25 26) AND 28 (LINES 1 3) OF HIS DIRECT TESTIMONY, THAT HE FINDS IT "PERPLEXING" THAT THE COMPANY WOULD INCUR COSTS ASSOCIATED WITH OUTSIDE LEGAL COUNSEL AND WITNESSES?
 - Mr. Michlik attempts to support Staff's position that the Company's proposed level of rate case expense is unreasonable because it employs in-house legal counsel and personnel qualified to address the cost of equity capital and, therefore, the costs associated with these aspects of the rate case are avoidable. As with Staff's recommended level of rate case expense itself, the Commission should disregard Mr. Michlik's testimony on the basis of its inconsistency. Staff has not shown how the Company's use of outside experts and legal counsel is less prudent than any other utility's use of such services. Nor has Staff testified in other proceedings that it is "perplexed" or otherwise bewildered by the fact that Arizona Public Service Co., UNS Gas, Southwest Gas, or Arizona-American Water Co. (now EPCOR Water) employs outside legal counsel or expert witnesses when filing a rate case. In fact, Staff has accepted EPCOR Water's proposed rate case expense of \$529,210 in its currently-pending rate case (Docket No. W-01445A-10-0448) without questioning that company's decision to not file a total-company rate case or to employ outside legal or consulting services. Additionally, Staff has recommended \$400,000 in rate case expense, or 163% of what it recommends in this proceeding, in Pima Utility Company's currently-pending rate case (Docket No. W-02199A-11-0329 et al) despite the fact that Pima has one-third the number of systems, less than one-fifth the amount of net plant, and less than one-third the number of customers as the Company's Eastern Group. Clearly, Staff's arguments lack consistency and conflict with longstanding Commission policy and practice as well as Staff's own practice in other rate cases.

Q. WHAT IS STAFF INCOME STATEMENT ADJUSTMENT NO. 7?

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A. Staff Income Statement Adjustment No. 7 adjusts Depreciation expense to reflect Staff's recommended plant balances. Staff's adjustment also reduces Depreciation expense in the Superstition system by \$45,326 to reflect Staff's proposed extension of the amortization period related to the \$691,522 in deferred Central Arizona Project ("CAP") charges currently included in the Superstition system's rate base.

Q. PLEASE EXPLAIN THE SECOND PART OF STAFF'S ADJUSTMENT IN MORE DETAIL.

Included in the Company's original application, and detailed on page 31 of the Appendix to Schedule C-2 of the application, was Company Income Statement Adjustment IS-18, related to Depreciation & Amortization expense. explained on page 19 (lines 10 – 21) of my direct testimony, Income Statement Adjustment IS-18 is the adjustment necessary to correct the amortization of deferred CAP charges approved in Decision No. 66849, dated March 19, 2004, for the Superstition system. In Decision No. 66849, the Commission included in the Superstition system's rate base \$691,522 in deferred CAP charges, to be amortized over a 10-year period⁴, resulting in an annual amortization amount of However, the actual revenue requirement and \$69,152 (\$691,522 ÷ 10). resulting rates adopted in Decision No. 66849 reflected a 32.17-year amortization period, or \$21,498 per year. This has been the amount charged by the Company to amortization expense in each of the years since Decision No. 66849.5 In its application, the Company proposed Income Statement Adjustment IS-18 as a means to correct this error. Income Statement Adjustment IS-18 increases Depreciation & Amortization expense by \$114,478, thus affording the Company

⁴ Decision No. 66849, p. 10 at 1-2 and 14-15.

⁵ As a result, the erroneous \$21,498 was again reflected in the rates adopted by Decision No. 71845, dated August 24, 2010

an opportunity to fully recover its deferred CAP charges in the Superstition system over a time period based on the original 10 years contemplated by the Commission in Decision No. 66849. Staff Income Statement Adjustment No. 7 extends this amortization period by approximately 3 years, resulting in an annual amortization amount that is equal to the original \$69,152.

Q. DOES THE COMPANY ACCEPT STAFF'S ADJUSTMENT?

- A. No. Under the Company's proposal, the amortization period is already extended from 10 to 11.75 years, assuming there are no delays in this proceeding. There is no valid reason to further extend the amortization period already deemed reasonable by the Commission in Decision No. 66849.
- Q. WHAT BASIS DOES STAFF PROVIDE FOR FURTHER EXTENDING THE AMORTIZATION PERIOD, THEREBY REDUCING THE ANNUAL AMORTIZATION AMOUNT?
- A. According to page 29 (lines 12 22) of his direct testimony, Mr. Michlik argues that Staff's adjustment is necessary so as not to "burden ratepayers with the Company-proposed higher annual amortization amount," arguing further that the Company had two opportunities to identify the mismatch, once in Decision No. 66849, and again in the rate case that concluded with Decision No. 71845.
- Q. DOES THE COMPANY'S PROPOSED PRO FORMA ADJUSTMENT "BURDEN" RATEPAYERS, AS STAFF CLAIMS?
- A. No. In fact, for over seven years, customers in the Superstition system have actually benefited by having paid rates for water utility service that are, by the Commission's own determination, too low. Staff's conclusion that the Company's adjustment burdens customers and their resulting proposal to alter the amortization period the Commission found reasonable in Decision No. 66849 fails to take this fact into consideration.

Staff Income Statement Adjustment No. 8 – Income Tax Expense

- Q. DOES THE COMPANY ACCEPT STAFF'S METHODOLOGY FOR CALCULATING TEST YEAR ADJUSTED INCOME TAXES AND THE REVENUE CONVERSION FACTOR USED TO CALCULATE THE REQUIRED REVENUE INCREASE?
- A. Yes. The Company and Staff are in agreement on the methodology used to calculate income taxes.

Staff Income Statement Adjustment No. 9 – Property Tax Expense

- Q. DOES THE COMPANY ACCEPT STAFF'S CALCULATION OF PROPERTY
 TAXES?
- A. No. While Staff agrees with the Company's methodology, Staff's calculation disregards the fact that property tax rates have increased since the Test Year. These increases were reflected in the 2011 property tax bills provided to the parties in the Company's response to RUCO Data Request 1.29 on October 27, 2011 (See Exhibit JMR-RB6). This information reflected the following increases in property tax rates:

	Effective Property Tax Rate – As Filed	Current Effective Property Tax Rate
Superstition	11.82%	13.40%
Cochise	9.94%	10.17%
San Manuel	12.12%	12.37%
Oracle	9.57%	10.30%
SaddleBrooke	10.73%	10.30%
Winkelman	18.90%	20.78%

These known and measurable rate increases should be reflected in the calculation of adjusted Test Year property taxes and property taxes at proposed rates.

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Response to the Direct Testimony of RUCO Witness Mease

RUCO Income Statement Adjustment No. 1 – Pumping and T&D Maintenance Expenses

- Q. ARE THE COMPANY AND RUCO IN AGREEMENT THAT THE TEST YEAR

 LEVELS OF PUMPING AND T&D MAINTENANCE EXPENSES WERE

 ABNORMAL AND WARRANT A NORMALIZING ADJUSTMENT?
- A. Yes. The Company and RUCO are in agreement that the Test Year levels of Pumping and T&D maintenance expenses were abnormally low and both parties propose normalizing adjustments.
- Q. HOW DOES RUCO PROPOSE TO NORMALIZE THESE EXPENSES?
- A. According to page 21 (lines 13 19) of Mr. Mease's direct testimony, RUCO normalized Pumping and T&D maintenance expenses by taking an average of the three years ending with the Test Year. The result is RUCO Income Statement Adjustment No. 1, a \$205,231 increase over the Test Year level of expenses, and \$342,987 below the level proposed by the Company.
- Q. DOES THE COMPANY ACCEPT RUCO'S ADJUSTMENT?
 - No. While the Company and RUCO are in agreement that the Test Year levels of Pumping and T&D maintenance expenses were abnormally low and warrant normalization, RUCO's adjustment fails to recognize and account for the fact that water utilities operate in a rising-cost industry. As I explained above in response to Staff Income Statement Adjustment No. 3, infrastructure-related costs, including the cost of maintenance, exhibit a long-term increasing trend. The appropriate method of normalizing an expense that exhibits such a trend is to perform some type of time-series analysis that captures its impact. Levine, Krehbiel and Berenson, authors of the introductory text, *Business Statistics*, explain further:

The first step in a time-series analysis is to plot the data and observe any patterns that may occur over time. You must first determine whether there appears to be a long-term

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upward or downward movement in the series (i.e., a trend) or whether the series seems to vary about a horizontal line over time. If there is no long-term upward or downward trend, then the method of moving averages or the method of exponential smoothing can be used to smooth the series and provide an overall long-term impression (See Section 12.3). On the other hand, if a trend is actually present, a variety of time-series forecasting methods can be considered (See Sections 12.4 and 12.5) when dealing with annual data.

One of the time-series methods described by Levine, Krehbiel and Berenson is the simple linear regression analysis performed by the Company.

- Q. HOW DO YOU RESPOND TO MR. MEASE'S STATEMENT ON PAGE 20 (LINES 12 - 16) OF HIS DIRECT TESTIMONY THAT THE ELEVEN-YEAR ANALYSIS PERFORMED BY THE COMPANY DOES NOT PRODUCE RESULTS THAT SUPPORT A STRONG RELATIONSHIP BETWEEN THE **VARIABLES USED IN THE ANALYSIS?**
 - As I explained above, the Company performed a conservative analysis by examining all years from 2000 through 2010. That analysis included the abnormally low years of 2008 through 2010, which reduce the impact of the trend and lower the statistical significance of the analysis. If one were to exclude those abnormal years from the analysis of T&D maintenance expense, the statistical significance (i.e. the strength of the relationship between the variables) and consequently, the normalized level of T&D maintenance expense, would increase. This conclusion is consistent with the chart of T&D maintenance costs per customer from 1991 through 2007 that I provided above in my response to Staff witness Mr. Michlik (Staff Income Statement Adjustment No. 3 – Pumping and T&D Maintenance Expense), illustrating the long-term increasing trend present in these costs.

⁶ Levine, David M., Timothy C. Krehbiel and Mark L. Berenson. *Business Statistics*. 3rd ed. 2003. p. 569.

Q. WHAT LEVEL OF RATE CASE EXPENSE DOES RUCO RECOMMEND?

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Α.

According to page 22 (lines 4 – 8) of Mr. Mease's direct testimony, RUCO recommends \$312,600 in rate case expense, recovered over three years.

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Q. HOW DID RUCO ARRIVE AT ITS RECOMMENDED LEVEL OF RATE CASE **EXPENSE IN THIS PROCEEDING?**

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Α. According to page 22 (lines 12 – 18) of Mr. Mease's direct testimony, RUCO applied an inflation factor for the years 2004 through 2011 to the amount of rate case expense approved by the Commission in the Company's last Eastern Group

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rate case, which was \$250,000.

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Q. DOES THE COMPANY ACCEPT RUCO'S RECOMMENDED LEVEL OF RATE **CASE EXPENSE?**

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No. If RUCO believes it is appropriate to rely on the Company's last Eastern Group rate case (Docket No. W-01445A-02-0619) as the basis for what it believes is a fair and reasonable level of rate case expense in this proceeding, as stated by Mr. Mease on page 22 (lines 10 - 18) of his direct testimony, then a more appropriate figure to apply in calculating its estimate would be the \$345,727 actually incurred in that case. Had Mr. Mease applied this figure, his recommended level of rate case expense would be \$432,297. This, while still below the Company's proposed level of rate case expense of \$476,874, is a figure that is more reasonable.

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RUCO Income Statement Adjustment No. 3 – Fleet Fuel Expense

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DOES THE COMPANY ACCEPT RUCO INCOME STATEMENT ADJUSTMENT Q. NO. 3 RELATED TO FLEET FUEL?

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No. RUCO Income Statement Adjustment No. 3 suffers from the same flaws Α. discussed above with respect to Staff's fleet fuel adjustment and, for the same reasons, the Company cannot accept it.

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RUCO Income Statement Adjustment No. 4 – Miscellaneous Expense

- Q. DOES THE COMPANY ACCEPT RUCO INCOME STATEMENT ADJUSTMENT NO. 4 TO REDUCE OPERATING EXPENSES IN THE EASTERN GROUP BY A TOTAL OF \$10,402 REPRESENTING MISCELLANEOUS ITEMS?
- A. Yes. RUCO's adjustment removes costs related to such items as flowers, gifts and donations, and results in a 50/50 sharing of association dues. The Company reviewed the charges RUCO proposes to remove and will accept RUCO's proposed adjustment.

RUCO Income Statement Adjustment No. 5 - Depreciation Expense

- Q. ARE THE COMPANY AND RUCO IN AGREEMENT REGARDING THE CALCULATION OF DEPRECIATION EXPENSE?
- A. Yes. The Company and RUCO are in agreement on the methodology used to calculate Depreciation expense.
 - RUCO Income Statement Adjustment No. 6 Property Taxes
- Q. DOES THE COMPANY ACCEPT RUCO'S CALCULATION OF PROPERTY TAXES?
- A. No. As with Staff's calculation of property taxes, RUCO's calculation relies on the effective property tax rates prevailing at the end of the Test Year. While the Company and RUCO agree on methodology, property tax rates have increased since the Test Year, as reflected in the following table (also shown above):

	Effective Property Tax Rate – As Filed	Current Effective Property Tax Rate
Superstition	11.82%	13.40%
Cochise	9.94%	10.17%
San Manuel	12.12%	12.37%
Oracle	9.57%	10.30%
SaddleBrooke	10.73%	10.30%
Winkelman	18.90%	20.78%

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As mentioned above, these increases were reflected in the 2011 property tax bills provided to the parties in the Company's response to RUCO Data Request 1.29 on October 27, 2011 (See Exhibit JMR-RB6). These known and measurable rate increases should be reflected in the calculation of Adjusted Test Year property taxes and property taxes at proposed rates.

Additional Operating Expense Pro Forma Adjustments

Company Rebuttal Income Statement Adjustment IS-5 – Purchased Water Expense (San Manuel)

Q. IS THE COMPANY PROPOSING ANY ADDITIONAL PRO FORMA ADJUSTMENTS TO OPERATING EXPENSES AT THIS TIME?

Yes. Company Rebuttal Income Statement Adjustment IS-5, shown on page 5 of the Appendix to Schedule C-2 Rebuttal (See Exhibit JMR-RB1) is an adjustment to reflect the most recent information available regarding Purchased Water expense in the San Manuel system. On page 17 (lines 6 - 12) of my direct testimony, I presented Company Income Statement Adjustment IS-12 (detailed on page 25 of the Appendix to Schedule C-2 of the Company's application) related to Purchased Water & Power expense. That adjustment showed an increase in the cost of purchased water, the sole source of supply in the San Manuel system, from \$1.12 per 1,000 gallons to \$2.40 per 1,000 gallons beginning January 1, 2012. The Company was notified of this increase by BHP Billiton ("BHP"), the Company's sole source of purchased water provider in San Manuel, on May 11, 2011. Subsequent to this initial notification, the Company successfully negotiated with BHP to lower the new purchased water rate from \$2.40 per 1,000 gallons to \$1.87 per 1,000 gallons. This revised rate. memorialized in the letter attached hereto as Exhibit JMR-RB7, became effective on January 1, 2012.

Q. WHAT EFFECT DOES THIS REVISED RATE HAVE ON PURCHASED WATER EXPENSE IN THE SAN MANUEL SYSTEM?

A.

As shown on page 5 of the Appendix to Schedule C-2 Rebuttal (Exhibit JMR-RB1), Company Rebuttal Income Statement Adjustment IS-5 reduces the Adjusted Test Year (i.e. "as filed") level of Purchased Water Expense in the San Manuel system by \$82,364.

V. Rate Design

Updated Cost of Service Study ("COSS") and Proposed Rate Design

Q. HAS THE COMPANY UPDATED ITS COSS?

A. Yes. The Company's updated COSS is shown on Schedules G-1 Rebuttal through G-7 Rebuttal (See Exhibit JMR-RB1). The updated COSS reflects the Company's updated Adjusted Test Year operating results and resulting revenue requirement.

Q. HAVE YOU MADE ANY OTHER CHANGES TO THE COSS?

A. Yes. Minor changes were made to the functional allocation of Administrative & General expenses, shown on Schedule G-7 Rebuttal, to reflect the actual 2010 mix of costs that were charged to this category of expense. For practical purposes, this update has little-to-no effect on the results of the COSS.

Q. HAVE THE OVERALL RESULTS OF THE COMPANY'S COSS CHANGED FROM THOSE REFLECTED IN THE COMPANY'S APPLICATION?

A. No. As shown on line 25 of Schedule G-1 Rebuttal (See Exhibit JMR-RB1), the rate of return at present rates for each of the customer classes is comparable to that reported on Schedule G-1 of the Company's application. Additionally, as shown on line 36 of Schedule G-1 Rebuttal (See Exhibit JMR-RB1), the required increase in gross revenues for the industrial class remains negative, indicating that present rate revenues from this class are, on average, greater than the cost of service allocated to it.

Q. IS THE COMPANY TAKING THE SAME APPROACH TO RATE DESIGN AS IT DID IN ITS ORIGINAL APPLICATION?

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1	A.	Yes. The Company's proposed rates shown on Schedule H-3 Rebuttal
2		incorporate the same principles discussed in Section VI of my direct testimony.
3		Response to the Direct Testimony of Staff Witness Bentley Erdwurm
4		Full Rate Consolidation
5	Q.	DOES THE COMPANY AGREE WITH STAFF'S RECOMMENDATION
6		REGARDING RATE CONSOLIDATION?
7	Α.	No. Company witness Mr. Harris addresses the issue of rate consolidation in his
8		rebuttal testimony.
9		Revenue Allocation among Classes
10	Q.	ARE THE COMPANY AND STAFF IN GENERAL AGREEMENT ON THE
11		ALLOCATION OF REVENUES AMONG CUSTOMER CLASSES?
12	A.	Yes. The Company and Staff have taken the same general approach to
13		allocating the revenue requirement among customer classes.
14		Allocation of Revenues between Fixed Charges & Commodity Rates
15	Q.	WHAT PERCENTAGE OF THE EASTERN GROUP'S OVERALL REVENUE
16		REQUIREMENT DID STAFF ALLOCATE TO THE FIXED BASIC SERVICE
17		CHARGE VS. THE COMMODITY RATE?
18	A.	According to Mr. Erdwurm's work papers, Staff's proposed rate design allocates
19	1	41.0% of revenues over all classes of service to the fixed basic service charge
20		and 51.0% to the commodity rate.
21	Q.	DOES THE COMPANY HAVE ANY CONCERNS ABOUT THE PERCENTAGE
22		OF REVENUES STAFF PROPOSES TO ALLOCATE TO THE COMMODITY
23		RATE?
24	A.	Yes. The Company has concerns about shifting fixed costs to the commodity
25		rate thereby increasing revenue volatility and uncertainty, especially at a time
26		when the Company is faced with the urgent need to fund much-needed
27		infrastructure replacement programs. The Company's proposed rate design
28		allocates 49% of the overall revenue requirement to the fixed basic service

charge and better helps to mitigate the likelihood of revenue volatility and uncertainty associated with increasing block rates.

Staff's Proposed Miscellaneous Service Charges

- Q. DOES THE COMPANY ACCEPT STAFF'S PROPOSED MISCELLANEOUS SERVICE CHARGES, INCLUDING SERVICE LINE AND METER INSTALLATION FEES?
- A. Yes. According to page 3 (lines 22 26) of Mr. Erdwurm's direct testimony, Staff recommends that the miscellaneous service charges reflected in the Settlement Agreement filed by the parties on February 15, 2012, in the Company's currently-pending Western Group rate case (Docket No. W-01445A-10-0517) be approved for the Eastern Group in this proceeding. The Company agrees with and accepts Staff recommendation.

Declining Usage Rate Design/Normalization of Billing Determinants

- Q. WHAT IS STAFF'S RECOMMENDATION REGARDING THE COMPANY'S PROPOSAL TO USE ADJUSTED BILLING DETERMINANTS TO DESIGN RATES IN ORDER TO ACCOUNT FOR DECLINING USAGE?
- A. On page 5 (lines 1 7) of his direct testimony, Mr. Erdwurm testifies that the slope coefficients determined by the regression analysis I presented in Exhibit JMR-1 of my direct testimony "vary significantly when the analysis is conducted over varying time frames (e.g., ten vs. five years)," and concludes that the Company's adjustment cannot be considered known and measurable.
- Q. DO YOU AGREE WITH MR. ERDWURM'S CONCLUSION?
- A. No. Given the consistency of the findings in Exhibit JMR-1 of my direct testimony with those of other studies, as well as the conclusions drawn by experts who performed those studies, I remain convinced that the existing evidence demonstrates that not only is there a known and identifiable pattern of decline in water usage, but that pattern of decline will continue.
- Q. WHAT OTHER STUDIES ARE YOU REFERRING TO?

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Most notably, I am referring to a 2010 project sponsored by the Water Research Foundation and the U.S. Environmental Protection Agency ("WRF-EPA Study") for the purpose of investigating declining trends in household water usage. drawing conclusions on the magnitude and causes of declining usage, and providing a tool for projecting such usage. Another study of customer usage found a decrease in residential usage between 2001 and 2010 across several states, with the reporting authors agreeing with the conclusions of the WRF-EPA Study. 8

WHAT ARE THE FINDINGS OF THE WRF-EPA STUDY? Q.

The WRF-EPA Study found a decline in annual residential usage at the national level of 0.44% per year since 1975. The decline was also pervasive at the regional level. Additionally, and more importantly for purposes of this proceeding, the WRF-EPA Study examined various factors at the local level to assess the causes of the decline in residential usage, and concluded that decreasing household size and the widespread installation and use of waterconserving appliances were the primary factors. Citing new federal regulations governing water-conserving appliances and fixtures, the study concluded that residential water usage will continue to decline as newer homes make up a larger component of the housing stock and more efficient appliances and fixtures penetrate the market. According to the WRF-EPA study:

Another factor that will continue to lower residential water usage is the recently approved higher water-efficiency standards for washing machines and dishwashers. Under the new legislation, new home dishwashers manufactured beginning in 2010 will be prohibited from using more than 4.5 or 6.5 gallons of water per cycle, depending on machine size. Beginning in 2011 all new home clothes washers will

⁷ "North America Residential Water Usage Trends Since 1992." Water Research Foundation. © 2010. pp. xxi, xxvii.

use at least 9.5 gallons per cycle per cubic foot that the clothes washer uses. 9

The authors of the WRF-EPA study reached these conclusions in conjunction with a study of usage patterns over a period of approximately 30 years, compared to Exhibit JMR-1 of my direct testimony which examined usage over a 10-year period.

Based on the results of the WRF-EPA study showing that clothes washers represent approximately 21% of household indoor water consumption,¹⁰ and an analysis of the new federal guideline estimating a decrease in the average number of gallons per load of 35%,¹¹ one can expect a 7.35% decline in indoor water usage in many households.

- Q. SHOULD THE COMMISSION RELY ON THE FINDINGS OF DECLINING
 USAGE STUDIES AND THE CONCLUSIONS REPORTED IN THE WRF-EPA
 STUDY AS EVIDENCE OF A KNOWN AND MEASURABLE CHANGE?
- A. Yes. As I mentioned in Section IV above, the Commission should conclude that the known and measurable standard is met when, as in this case, the Company provides evidence of a known and documented pattern of a decline in customer usage which is reasonably anticipated to continue during the period new rates are in effect. Accordingly, the Company's proposed rate design continues to incorporate its proposed adjustment to billing determinants.

Response to the Direct Testimony of RUCO Witness William A. Rigsby

Rate Consolidation

- Q. DID RUCO ADOPT THE COMPANY'S PROPOSED RATE CONSOLIDATION?
- A. Yes. According to page 15 (lines 1-4) of Mr. Rigsby's direct testimony, RUCO supports the Company's proposed consolidation of the San Manuel, Oracle and

WRF-EPA. pp. xxvii – xxviii, 65 – 77.

¹⁰ WRF-EPA. p. 47.

¹¹ "Declining Residential Water Use." Opflow. p. 19.

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SaddleBrooke Ranch systems into a new rate system known as Falcon Valley. Mr. Harris addresses rate consolidation in further detail in his rebuttal testimony. Declining Usage Rate Design/Normalization of Billing Determinants

- WHAT IS RUCO'S RECOMMENDATION REGARDING THE COMPANY'S Q. PROPOSAL TO USE ADJUSTED BILLING DETERMINANTS TO DESIGN RATES IN ORDER TO ACCOUNT FOR DECLINING USAGE?
- A. Mr. Rigsby responds to the Company's proposal on page 19 (lines 12 - 18) of his direct testimony by stating that RUCO is not convinced that usage will continue to decline, nor are they convinced that any declines in usage will affect the Company's ability to earn its authorized rate of return.
- **HOW DO YOU RESPOND?** Q.
- Α. Mr. Rigsby provides no evidence to support his position and disregards the credible and substantial evidence the Company provided. In my response to Staff witness Mr. Erdwurm above, I cited the results of two recent studies which support the finding that a known and documented pattern of declining usage exists, and that a decline in customer usage can reasonably be anticipated to continue during the period new rates are in effect. In other words, although customer usage may eventually flatten out, it is not expected to do so any time soon, as RUCO assumes.
 - Response to the Direct Testimony of RUCO Witness Robert B. Mease Rate Design
- ARE THE COMPANY AND RUCO IN AGREEMENT ON THE GENERAL Q. APPROACH TO RATE DESIGN?
- RUCO has incorporated each of the Company's rate design principles A. discussed in Section VI of my direct testimony.
- DOES THAT CONCLUDE YOUR REBUTTAL TESTIMONY? Q.
- A. Yes.

JMR-RB1

ARIZONA WATER COMPANY
Test Year Ended December 31, 2010
Computation of Increase in Gross Revenue Requirement

						Eastern Group					
 <u>Description</u>		<u>₹</u>	[8]	<u></u>	<u>e</u>			亘	F	[6]	E.
			Company - As Filed	As Filed					Company - Rebuttal	uttal	
Adjusted Rate Base	↔	63,794,726					€9	63,560,931			
Adjusted Operating Income	↔	3,016,638					↔	3,053,036			
Current Rate of Return (Ln. 6 ÷ Ln. 4)		4.73%						4.80%			
Required Operating Income	⇔	6,199,317					€	6,187,871 2			
Required Rate of Return		9.72%						9.72%			
Operating Income Deficiency (Ln. 10 - Ln. 6)	↔	3,182,678					€9	3,134,835			
Gross Revenue Conversion Factor		1.6554						1.6584			
Required Increase in Gross Revenue (Ln. 14 X Ln. 16)	↔	5,268,560					69	5,198,671			
Add: Consolidated Revenue Adjustment ¹	€9	,					69	•			
Proposed Increase in Gross Revenues	69	5,268,560					49	5,198,671			
 Customer <u>Classification</u>		Revenue - Present <u>Rates</u>	Revenue - Proposed <u>Rates</u>	Dollar <u>Increase</u>	Percent Increase	ent iase	Ľ.	Revenue - Present <u>Rates</u>	Revenue - Proposed <u>Rates.</u>	Dollar Increase	Percent Increase
Residential Commercial Industrial	↔	15,371,629 \$ 3,890,028	\$ 19,493,333 4,774,967	8 \$ 4,121,704 7 884,939		26.81% 22.75%	69	15,371,629 \$ 3,890,028	19,372,255 4,822,349	\$ 4,000,626 932,321	26.03% 23.97%
Private Fire Service Other Water Revenues		68,497 310,817	75,628 378,984			10.41% 21.93%		68,497 310,817	75,628 383,206	7,131 72,389	10.41%
Total Water Revenues	မာ	19,717,550 \$	\$ 24,809,579	3 \$ 5,092,029	1 11	25.82%	69	19,717,550 \$	24,739,691	\$ 5,022,141	25.47%
Miscellaneous Revenues		799,406	975,534	176,128	IN I	22.03%		799,406	975,534	176,128	22.03%
Total Operating Revenues	φ.	20,516,956 \$	\$ 25,785,113	\$ \$,268,157	11	25.68%	ь	20,516,956 \$	25,715,225	\$ 5,198,269	25.34%
Consolidated Revenue Adjustment represents the increase/(decrease) in revenue requirement resulting from proposed rate consolidation.							² Adol opei \$0.8	² Adopts Staff's recommendation to set required operating income for SaddleBrooke Ranch equal to \$0 as a result of negative rate base.	imendation to se r SaddleBrooke jative rate base.	it required Ranch equal to	

Consolidated Revenue Adjustment represents the increase/(decrease) in revenue requirement resulting from proposed rate consolidation.

Supporting Schedules: B-1 Rebuttal, C-1 Rebuttal, H-1 Rebuttal

ARIZONA WATER COMPANY
Test Year Ended December 31, 2010
Computation of Increase in Gross Revenue Requirement

Description	₹	[8]	<u>D</u>	[b] [E]	(E)		-	[9]	Ξ
		Company - As Filed	As Filed			Comp	Company - Rebuttal	ıtal	
Adjusted Rate Base	\$ 50,574,693				\$ 50,432,117	,117			
Adjusted Operating Income	\$ 2,562,892				\$ 2,534,589	589			
Current Rate of Return (Ln. 6 + Ln. 4)	5.07%				2	5.03%			
Required Operating Income	\$ 4,914,647				\$ 4,900,792	,792			
Required Rate of Return	9.72%				5	9.72%			
Operating Income Deficiency (Ln. 10 - Ln. 6)	\$ 2,351,755				\$ 2,366,203	,203			
Gross Revenue Conversion Factor	1.6560				1.6	1.6598			
Required Increase in Gross Revenue									
(Ln. 14 X Ln. 16)	\$ 3,894,582				\$ 3,927,383	,383			
Add: Consolidated Revenue Adjustment ¹	· 69				↔	•			
Proposed Increase in Gross Revenues	\$ 3,894,582				\$ 3,927,383	,383			
					0		Ç		
	Present	Proposed	Dollar	Percent	Present	t Proposed	- eq	Dollar	Percent
Customer Classification	Rates	Rates	Increase	Increase	Rates		es	Increase	Increase
Residential	\$ 11,436,957	\$ 14,555,439	\$ 3,118,483	27.27%	\$ 11,436,957	49	14,580,858 \$	3,143,902	27.49%
Commercial	2,606,590	3,190,590	584,000	22.40%	2,606,590	9.7	3,197,568	590,978	22.E
Industrial	70,149	78,895	8,746	12.47%	0/		78,895	8,746	12.47%
Private Fire Service	51,194	54,628	3,434	6.71%	51		54,628	3,434	6.71%
Other Water Revenues	166,217	213,645	47,428	28.53%	166	166,217 2	214,050	47,833	28.78%
Total Water Revenues	\$ 14,331,107	\$ 18,093,197	\$ 3,762,091	26.25%	\$ 14,331,107	69	18,125,999 \$	3,794,893	26.48%
Miscellaneous Revenues	725,456	857,550	132,094	18.21%	725	725,456 8	857,550	132,094	18.21%
Total Operating Revenues	\$ 15,056,563	\$ 18,950,747	\$ 3,894,185	25.86%	\$ 15,056,563	↔	18,983,550 \$	3,926,987	26.08%

¹Consolidated Revenue Adjustment represents the increase/(decrease) in revenue requirement resulting from proposed rate consolidation. 55 55 55 55 55 55 55 55

ARIZONA WATER COMPANY
Test Year Ended December 31, 2010
Computation of Increase in Gross Revenue Requirement

Exhibit
Schedule A-1 Rebuttal
Page 3 of 7
Witness: Reiker

Adjusted Rate Base \$ 8,56,5839 Activated Rate Base \$ 8,90,508 Activated Rate Base \$ 39,079 Activated Operating Income \$ 30,000 Activated Operating Inc	Description	[\]	[8]	<u>[5]</u>	[0]	[3]	Œ	<u></u>	Ξ
S 8550839 S 8425690 4455% 4455% Income S 802036 S 818775 455% Income S 802036 S 818775 S 818775 Income S 8202836 S 8202836 S 8202836 S 8202836 Income S 8202836 S 8202836 S 8202836 S 8202836 S 8202836 Increase Parentue S 8202836 S 8202836 S 8202836 S 8202836 S 8202836 S 8202836 Gross Parentue S 723.087 S 8202836			Company - As	s Filed			Company - Reb	uttal	
Michiellow Signory A 53%	Adjusted Rate Base								
Michael A 53% A 53% A 53% A 53% A 53% A 55% A	Adjusted Operating Income								
1651 1651 1651 1651 1651 1651 1652	Current Rate of Return (Ln. 6 + Ln. 4)	4.53%				4.65%			
1,6516 1	Required Operating Income								
1,6516 1,6516 1,6516 1,6516 1,6516 1,6517 1,6517 1,6518 1	Required Rate of Return	9.72%				9.72%			
Gross Revenue \$ 733,087 \$ 730,077 \$ 705,007 Revenue Adjustmentt \$ 733,087 \$ 705,007 \$ 705,007 Revenue Adjustmentt \$ 733,087 \$ 705,007 \$ 705,007 Revenue Adjustmentt \$ 733,087 \$ 705,007 \$ 705,007 Revenue - Presentt Proposed Dollar Presentt Proposed Increase Rates Rates Increase Rat									
Stratement Str	Gross Revenue Conversion Factor	1.6516				1.6521			
Revenue Adjustment* \$ 733,087 \$ 705,007 n Gross Revenue - Reven	Required Increase in Gross Revenue (Ln. 14 X Ln. 16)								
States S	Add: Consolidated Revenue Adjustment1								
Revenue	Proposed Increase in Gross Revenues								
\$ 2,270,377 \$ 2,810,078 \$ 539,700	<u>Customer Classification</u>	1	evenue - oposed Rates	Dollar Increase	Percent <u>Increase</u>	Revenue - Present <u>Rates</u>	Revenue - Proposed <u>Rates</u>	Dollar Increase	Percen
3,342 3,875 533 15,96% 3,342 3,875 533 16,647 19,893 3,246 107,088 114,922 7,833 7.31% 107,088 113,394 6,306 \$ 3,260,624 \$ 3,967,901 \$ 707,278 21,69% \$ 42,877 68,735 25,858 60.31% 42,877 68,735 25,858 \$ 60.31% 42,877 68,735 25,858 \$ 50.31% 42,877 68,735 136,636,8 733,136 22.19% \$ 3,303,500 \$ 4,008,555 \$ 705,055	Residential	2,270,377 \$		539,700	23.77%	2,270,377	2,792,873		23.01%
\$ 3,260,624 \$ 3,967,901 \$ 707,278	Industrial Private Fire Service Other Water Revenues		3,875 19,893 114,922	533 3,246 7,833	15.96% 19.50% 7.31%	3,342 16,647 107,088	3,875 19,893 113,394	533 3,246 6,306	15.96% 19.50% 5.89%
\$ 3,303,500 \$ 4,036,636 \$ 733,136	Total Water Revenues	3,260,624 \$	- 1 1	707,278	21.69%	3,260,624	3,939,820		20.83
\$ 3,303,500 \$ 4,036,636 \$ 733,136 22.19% \$ 3,303,500 \$ 4,008,555 \$ 705,055	Miscellaneous Revenues	42,877	68,735	25,858	60.31%	42,877	68,735	25,858	60.31%
	Total Operating Revenues	69	lì	733,136	22.19%	3,303,500	4,008,555	- 1	21.34

Consolidated Revenue Adjustment represents the increase/(decrease) in revenue requirement resulting from proposed rate consolidation. 52 53 54 55

Exhibit
Schedule A-1 Rebuttal
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Witness: Reiker

ARIZONA WATER COMPANY
Test Year Ended December 31, 2010
Computation of Increase in Gross Revenue Requirement

Line	9 Description	[A]	[8]	[0]	[a]		<u>[E]</u>	E	[9]	Ξ
- 6				1						
1 to 4	Adjusted Rate Base	\$ 2,016,750	y Company -			\$ 2,0	2,014,751	de la company	5	
o 0	Adjusted Operating Income	\$ (28,824)				↔	29,230			
7 8 7	Current Rate of Return (Ln. 6 + Ln. 4)	-1.43%					1.45%			
e 6 £	Required Operating Income	\$ 195,980					195,785			
- 24	Required Rate of Return	9.72%					9.72%			
5 4 1	Operating Income Deficiency (Lл. 10 - Ln. 6)	\$ 224,804				¥ 7	166,555			
૧૦૦	Gross Revenue Conversion Factor	1.6567					1.6573			
7 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Required Increase in Gross Revenue (Ln. 14 X Ln. 16)	\$ 372,441				€9	276,037			
3 7 8	Add: Consolidated Revenue Adjustment ¹	\$ 15,017 ((San Manuel/Oracle/	ole/		69	77,147 (5	(San Manuel/Oracle/	ole/	
23 53	Proposed Increase in Gross Revenues	\$ 387,458	SaddleBrooke Ranch)	anch)		€9	353,183	Saddlebrooke Kanch)	anch)	
25 24										
27 27 82		Revenue -	Revenue -	relloc	Derroon	Reve	Revenue -	Revenue -	Dollar	Percent
3 8 3	Customer Classification	Rates	Rates	Increase	Increase	- E	Rates	Rates	Increase	Increase
3 5	Residential	\$ 763,888	\$ 1,076,848 \$	(-)	40.97%	↔	763,888 \$	1,010,949	\$ 247,062	32.34%
32	Commercial Industrial	159,464	221,979	62,516	39.20%		159,464	251,386	91,922	57.64%
8 %		287	324	37	12.92%		287	324	37	12.92%
38		6000	677,11	CBC,2	20.30.70	:	200,0	21.01	200,'t	
37	Total Water Revenues	\$ 932,277	\$ 1,310,376 \$	378,099	40.56%	69	932,277 \$	1,276,102	\$ 343,824	36.88%
8 8	Miscellaneous Revenues	15,328	24,610	9,282	60.56%		15,328	24,610	9,282	80.56%
4										
4 4 6	Total Operating Revenues	\$ 947,605	\$ 1,334,986 \$	387,381	40.88%	69	947,605	\$ 1,300,712	\$ 353,106	37.26%
3 4										
45										
4 4										
84 64										
2 2										

Recap Schedules:

ARIZONA WATER COMPANY
Test Year Ended December 31, 2010
Computation of Increase in Gross Revenue Requirement

Exhibit
Schedule A-1 Rebuttal
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를 위 +	Description		[4]	<u>@</u>	[0]		[0]		<u>(i</u>	[6]	[6]	Ξ
				Company	Company - As Filed	٥				Company - Rebuttal	buttal	
	Adjusted Rate Base	\$ 2,	2,470,183					€7	2,497,996			
100	Adjusted Operating Income	€9	163,349					↔	163,579			
	Current Rate of Return (Ln. 6 + Ln. 4)		6.61%						6.55%			
	Required Operating Income	69	240,043					€9	242,745			
	Required Rate of Return		9.72%						9.72%			
	Operating Income Deficiency (Ln. 10 - Ln. 6)	ь	76,693					69	79,166			
	Gross Revenue Conversion Factor		1.6508						1.6525			
÷ 8 1 6 6	Required Increase in Gross Revenue (Ln. 14 X Ln. 16)	€	126,601					↔	130,819			
	Add: Consolidated Revenue Adjustment¹	₩	21,855	(San Manuel/Oracle/)racle/			↔	(21,051)	(21,051) (San Manuel/Oracle/	cle/	
	Proposed Increase in Gross Revenues	↔	148,456	Saddlebrooke Kanch)	s Kanch)			↔	109,768	SaddleBrooke Kanch)	anch)	
	Customer Classification	한 도 및	Revenue - Present Rates	Revenue - Proposed <u>Rates</u>	Dollar increase	lar ase	Percent Increase		Revenue - Present <u>Rates</u>	Revenue - Proposed <u>Rates</u>	Dollar Increase	Percent Increase
			0		•			•		0		
	Commercial	A	156.439	180.318	-	114,45U 23,879	15.26%	A	156 439	4 855,189	41.070	26.25%
	Industrial Private Fire Service		283	702		, ₹	0.00%		283	708		
	Other Water Revenues		19,841	23,223		3,383	17.05%		19,841	26,644	6,803	
	Total Water Revenues	89	977,602	\$ 1,119,354	69	141,752	14.50%	မှာ	977,602	\$ 1,080,666	\$ 103,064	10.54%
	Miscellaneous Revenues		12,494	19,212		6,718	53.77%	İ	12,494	19,212	6,718	53.77%
	Total Operating Revenues	8	990,095	\$ 1,138,566	€	148,470	15.00%		990,095	\$ 1,099,877	\$ 109,782	11.09%
49 64												
_												

ARIZONA WATER COMPANY
Test Year Ended December 31, 2010
Computation of increase in Gross Revenue Requirement

No Description	₹	<u>n</u>	<u>ত</u>	<u>o</u> .		<u>E</u>	E	<u>5</u>	Ξ
		Company - As Filed	As Filed				Company - Rebuttal	ebuttal	
Adjusted Rate Base	\$ (124,601)				€9	(116,014)			
Adjusted Operating Income	\$ (78,989)				⇔	(77,200)			
Current Rate of Return (Ln. 6 + Ln. 4)	n/a					n/a			
10 Required Operating Income 11	\$ (12,108)				49	,	2		
12 Required Rate of Return	9.72%					n/a	2		
Operating Income Deficiency (Ln. 10 - Ln. 6)	\$ 66,880				49	77,200			
Gross Revenue Conversion Factor 75	1.6535					1.6525			
18 Required Increase in Gross Revenue 19 (Ln. 14 X Ln. 16) 20	\$ 110,584				₩	127,571			
Add: Consolidated Revenue Adjustment¹	\$ (36,871)	(36,871) (San Manuel/Oracle/	icle/		€9	(56,095)	(56,095) (San Manuel/Oracle/	racle/	
Proposed Increase in Gross Revenues	\$ 73,713	SaddleBrooke Kanch)	anch)		69	71,475	SaddieBrooke Ranch)	Ranch)	
<u>Customer Classification</u>	Revenue - Present <u>Rates</u>	Revenue - Proposed <u>Rates</u>	Dollar <u>Increase</u>	Percent <u>Increase</u>	<u>ж</u> п	Revenue - Present <u>Rates</u>	Revenue - Proposed <u>Rates</u>	Dollar Increase	Percent Increase
Residential Commercial	\$ 45,127	\$ 65,719 \$	20,591	45.63%	€9	45,127	\$ 61,103	\$ 15,976	35.40%
33 Industrial 34 Private Fire Service 35 Other Water Revenues	85 9,032	459 15,970	374 6,938	0.00% 440.00% 76.82%		85 9,032	459 15,676	374 6,644	0.00% 440.00% 73.56%
Total Water Revenues	\$ 115,521	\$ 187,932 \$	72,411	62.68%	6	115,521	\$ 185,694	\$ 70,173	60.75%
39 Miscellaneous Revenues 40	1,582	2,884	1,302	82.31%		1,582	2,884	1,302	82.31%
41 Total Operating Revenues4243	\$ 117,103	\$ 190,816 \$	73,713	62.95%	49	117,103	\$ 188,578	\$ 71,475	61.04%
45 45 46 48 48 50 50									
 Consolidated Revenue Adjustment represents the increase/(decrease) in revenue requirement resulting from proposed rate consolidation. 					Adop opera	ts Staff's recating income	Adopts Staff's recommendation to set required operating income for SaddleBrooke Ranch equal to \$6.0 as a result of newaitive rate hase.	o set required oke Ranch equa	l to

²Adopts Staff's recommendation to set required operating income for SaddleBrooke Ranch equal to \$0 as a result of negative rate base. N:2011_Rate_Case\Schedules\Eastern Group\2011 AWC Rate Case Model REBUTTAL SCHEDULES AWC EG 03.30.12 900am.xisx\A1 Processing Date: 3/30/2012 11:09 AM

ARIZONA WATER COMPANY
Test Year Ended December 31, 2010
Computation of Increase in Gross Revenue Requirement

Line <u>No. Description</u>	[A]	[8]	[5]	[a]	(E)	Œ	<u>ত</u>	E.
		Company - As Filed	As Filed			Company - Rebuttal	pottal	
Adjusted Rate Base	\$ 306,862				\$ 306,390			
Adjusted Operating Income	\$ 11,131				\$ 10,784			
Current Rate of Return (Ln. 6 + Ln. 4)	3.63%				3.52%			
Required Operating Income	\$ 29,820				\$ 29,774			
Required Rate of Return	9.72%				9.72%			
Operating Income Deficiency (Ln. 10 - Ln. 6)	\$ 18,689				\$ 18,990			
Gross Revenue Conversion Factor	1.6729				1.6774			
Required Increase in Gross Revenue (Ln. 14 X Ln. 16)	\$ 31,264				\$ 31,855			
Add: Consolidated Revenue Adjustment ¹	· &				€9			
Proposed Increase in Gross Revenues	\$ 31,264				\$ 31,855			
	Revenue -	Revenue -	=		Revenue -	Revenue -) (1
Customer Classification	Rates	Rates	Increase	ncrease	Rates	Rates	Increase	Increase
Residential			\$ 15,519	28.61%	\$ 54,241	\$ 70,282	\$ 16,041	29.57
Commercial	43,091 3,089	57,162 3,897	14,071 808	32.65% 26.15%	43,091 3,089	3,482	14,555 393	12.73%
Private Fire Service Other Water Revenues				%00.0 0.00%		1 1		%00.0 %00.0
Total Water Revenues	\$ 100,421	\$ 130,819	\$ 30,398	30.27%	\$ 100,421	\$ 131,410	\$ 30,989	30.86%
Miscellaneous Revenues	1,669	2,543	874	52.36%	1,669	2,543	874	52.36%
Total Operation Revenues	\$ 102.090	133 362	31 272	30 63%	4 102.090	\$ 133 953	31.863	31 21%
					1			
¹ Consolidated Revenue Adjustment represents the increase/(decrease) in revenue requirement								

ARIZONA WATER COMPANY Test Year Ended December 31, 2010 Summary Original Cost Rate Base

Exhibit
Schedule B-1 Rebuttal
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Witness: Reiker

		₹		[8]		<u>[</u>]
	O.O.	O.C. Rate Base - Company - As Filed		Rebuttal Adjustments	Co To	O.C. Rate Base Company - Rebuttal
Gross Plant in Service	€9	114,351,350	€9	(91,140)	€9	114,260,210
Less: Accumulated Depreciation		27,844,496		(9,197)		27,835,298
Net Plant in Service	es-	86,506,854	€	(81,942)	69	86,424,912
Less: Advances in Aid of Construction Contributions in Aid of Construction:		11,305,977		•		11,305,977
Gross		20,165,452		1		20,165,452
Accumulated Amortization		(2,561,377)		•		(2,561,377)
Net Contributions in Aid of Construction	69	17,604,075	€>	ı	€9	17,604,078
Deferred Income Tax		7,267,953		1		7,267,953
Customer Deposits		322,847		1		322,847
Add:						
Working Capital Net Regulatory Asset / (Liability)		1,016,691 (448,000)		(60,634)		956,056 (448,000)
Total Rate Base	₩	50,574,693	69	(142,576)	49	50,432,117

Gross Plant in Service \$ Less: Accumulated Depreciation Net Plant in Service Advances in Aid of Construction Contributions in Aid of Construction: Gross Accumulated Amortization Net Contributions in Aid of Construction Special Income Tax	O.C. Rate Base - Company - As Filed 20,992,936 \$ 7,506,943 13,485,994 \$ 1,632,190 2,198,794 (439,381) 1,759,413 \$	Rebuttal Adiustments (122,234) (122,234) (122,273)	0.C. Rate Base Company - Rebuttal 20,870,703 7,506,982 7,506,982 1,632,190 1,632,190 2,198,794 (439,381) \$ 1,759,413
Deferred Income Lax Customer Deposits	1,823,964 38,290	1 +	1,823,964 38,290
d: Working Capital Net Regulatory Asset / (Liability)	318,702	(2,875)	315,827
Total Rate Base	8,550,839 \$	(125,148)	\$ 8.425.690

Exhibit Schedule B-1 Rebuttal Page 4 of 7 Witness: Reiker

[0]	O.C. Rate Base Company - Rebuttal	4,414,635	1,313,983	61.297	742,146	690,109	416,036 11,769	93,311	2011761
San Manuel [B]	Rebuttal Adjustments	101 \$	6			8	1 1	(2,091)	(1,998) \$
[A]	O.C. Rate Base - Company - As Filed	\$ 4,414,534 \$	1,313,974		742,146	\$ 690,109 \$	416,036 11,769	95,402	\$ 2,016,750 \$
		Gross Plant in Service	Less: Accumulated Depreciation Net Plant in Service	Less: Advances in Aid of Construction	Contributions in Aid of Construction: Gross Accumulated Amortization	Net Contributions in Aid of Construction	Deferred Income Tax Customer Deposits	Add: Working Capital Net Regulatory Asset / (Liability)	Total Rate Base

[5]	O.C. Rate Base <u>Company - Rebuttal</u>	7,465,833	2,829,394	4,636,439	814,160	1,006,130	(140,146)	865,984	517,509	12,126	71,337	2,497,996
	ଃ	69		€9				69				69
Oracle [B]	Rebuttal <u>Adjustments</u>	29,823	11	29,812	,	1	,	,	•	•	(1,999)	27,813
		69		€9				↔				69
[¥]	O.C. Rate Base - Company - As Filed	7,436,010	2,829,383	4,606,627	814,160	1,006,130	(140,146)	865,984	517,509	12,126	73,335	2,470,183
	Como Gmg	49		€9				₩.				69
		Gross Plant in Service	Less: Accumulated Depreciation	Net Plant in Service	Less: Advances in Aid of Construction Contributions in Aid of Construction:	Gross	Accumulated Amortization	Net Contributions in Aid of Construction	Deferred Income Tax	Customer Deposits	Add: Working Capital Net Regulatory Asset / (Liability)	Total Rate Base

	[0]	O.C. Rate Base Company - Rebuttal	3,695,734	242,712	e.	3,312,883	226,219	(5,049)	221,170	38,052	902	3.775	, 1	(118 014)
SaddleBrooke Ranch	[8]	Rebuttal <u>Adjustments</u>	9,519 \$	150	\$ 026,6	ı	,	•	•	,		(783)	, 1	8 587 €
Sa			69		69				↔					65
	[A]	O.C. Rate Base - Company - As Filed	3,686,215	242,563	3,443,653	3,312,883	226,219	(5,049)	221,170	38,052	706	4,557		(124 601)
		O.O Mo	69		es.				\$					69
			Gross Plant in Service	Less: Accumulated Depreciation	Net Plant in Service	Less: Advances in Aid of Construction Contributions in Aid of Construction	Gross	Accumulated Amortization	Net Contributions in Aid of Construction	Deferred Income Tax	Customer Deposits	Add: Working Capital	Net Regulatory Asset / (Liability)	Total Rate Base

Exhibit Schedule B-1 Rebuttal Page 7 of 7 Witness: Reiker

[2]	O.C. Rate Base Company - Rebuttal	591,428	220,208	1	21,225	20,241	48,199 1,249	4,860	306,390
	0 8	€9	69			€\$			49
		12	- =	ı				(483)	(472)
Winkelman [B]	Rebuttal Adjustments								
		69	69			69			69
[A]	O.C. Rate Base - Company - As Filed	591,416	220,207 371,209	•	21,225 (984)	20,241	48,199 1,249	5,343	306,862
	O.C. F	69	65			€9			es.
		Gross Plant in Service	Less: Accumulated Depreciation Net Plant in Service	Less: Advances in Aid of Construction Contributions in Aid of Construction:	Gross Accumulated Amortization	Net Contributions in Aid of Construction	Deferred Income Tax Customer Deposits	Add: Working Capital Net Regulatory Asset / (Liability)	Total Rate Base

 $\begin{array}{c} \text{Lie} \\ \frac{1}{100} \\ \frac{$

1	Original Cost Rate Base Pro Politia Automatical Actual Actual Pro Ford Adulation Plant Classification (17.375 \$ 1.47 638	Superstition (Apache Junction, Superior, Miami) 19 19 17 19 19 19 19 19	As Filed Aut. 10. \$ \$ (7,699) \$ 34,484 (3.55) \$ (34,604)	10,1320,656 10,320,656 78,747,778 5,985,412 \$ 114,351,350 \$ (9,354) \$ \$ (83,551) \$ \$ 157	27,844,496 (9,354) \$ (83,551) \$ \$ (80,551) \$ \$ (80,551) \$ \$ (80,572) \$	11,305,977 20,165,452 20,165,452 (2,561,377) (2,561,377) (2,561,377) (2,561,377) (2,561,377) (2,561,377) (2,561,377) (2,561,377) (2,561,377) (2,561,377) (2,561,377) (2,561,377) (2,561,377) (2,561,377) (2,561,377) (2,561,377) (2,561,377) (2,561,377)	(e0,634) 956,056 322,847 (60,634) (448,000)	1,016,691 (448,000) 8 (83,551) \$	50,574,693 \$		Recap Sched
	## Actual End of Test Year 12,375 \$ 12,375 \$ 9,147,638 9,986,535 7,448,002 78,380,068 3,986,146 \$ 108,910,763 \$ 108,910,763 \$ 108,910,763 \$ 108,910,763 \$ 108,910,763 \$ 108,910,763 \$ 10,016,69 \$ 1,	[C] Adjusted Test Year	21 \$ 14,996 \$ 23 9,147,660	10,135,447 10,320,656 78,747,178 5,985,412 114,351,350 \$	520,764 27,844,496 4,919,823 \$ 86,506,854 \$	20,165,452 20,165,452 (2,561,377) \$ 17,604,075	7,267,953 7,267,953 322,847	1,016,691 (448,000) (448,000)	\$ (2,796,130) \$ 50,574,693	•	

ARIZONA WATER COMPANY Test Year Ended December 31, 2010 Original Cost Rate Base Pro Forma Adjustments

Plant Classification Intangible Plant Course of County Dies		Total	Adjusted			Rebuttal	Rate Base Adius	tments	:	•	Total	Adjust
Plant Classification Intangible Plant Company Company	End of Test Year	Pro Forma Adjustments	Test Year -	Rebuttal Adj. RB-1	Rebuttal Adi. RB-2	Rebuttal Adj. RB-3	buttal Rebuttal Rebu RB-3 Adi. RB-4 BLAI	Rebuttal BLANK	Rebuttal BLANK	Rebuttal Adj. RB-5	Rebuttal Adjustments	Test Year - Rebuttal
		\$ 658 \$				· •				· У		\$ 44,054
Source of Supply Plant	1,649,590	φ	1,649,595			•				•	•	1,049,393
Vater Treatment Plant	143,076	147	1,715,070								•	143,171
Transmission & Distribution Plant	15,274,344	725,358	15,999,702			(122,677)					(122,677)	
General Plant Total Gross Plant in Service	933,254 \$ 19,759,483 \$	\$ 1,233,453 \$	1,440,538 20,992,936	, es	, &	\$ (122,677)	· 69		. ↔	\$ 443	\$ (122,234)	\$ 20,870,703
Less:												
Accumulated Depreciation	7,381,827	125,116	7,506,943	6	6	(422677)	e	e	e	39	39 (122 273)	7,506,982
	909'116'71	1, 106,337	15,465,884	·	, 9	(175'01)	•	Ī	•			→
Less: Advances in Aid of Construction	1,632,190	•	1,632,190								•	1,632,190
Contributions in Aid of Construction: Gross	2,198,794	•	2,198,794								•	2,19
Accumulated Amortization Net Contributions in Aid of Construction	(439,381) \$ 1,759,413	\$	1,759,413	· •	. ↔	· &	· ·	· •	, s	, es	· ·	\$ 1,759,413
Deferred Income Tax Customer Deposits	38,290	1,823,964	1,823,964 38,290								, ,	1,823,964 38,290
Add: Working Capital	318.702	,	318.702				(2,875)				(2,875)	315,827
Net Regulatory Asset / (Liability)	•	ı	•								•	
Total Rate Base	\$ 9,266,466	\$ (715,627) \$	8,550,839	, (О	\$ (122,677)	\$ (2,875)	· •	С	\$ 404	\$ (125,148) \$	\$ 8,425,690
Total Rate Base	9.266,466	(715,627)	8,550,839	, , , , , , , , , , , , , , , , , , ,	, es		(2,875)	e9	69			

Line 1 2 Plant Classification 3 Intangible Plant 5 Source of Supply Plant 6 Water Treatment Plant 7 Transmission & Distribution Plant 8 General Plant 7 General Plant		2	<u>.</u>	Ξ.	<u>D</u>	Ξ	<u>ত</u>	E	Ξ	Ξ	₹	
<u>P</u>	Actual End of	Total	Adjusted	C#1400	400	Rebutta	Rebuttal Rate Base Adjustments	djustments	ic#ido0	ichide0	Total	
Plant Classification Intangible Plant Source of Supply Plant Pumping Plant Water Treatment Plant Transmission & Distribution Plant General Plant	Test Year	rol	As Filed	Adj. RB-1	Adj. RB-2	Adj. RB-3	Adj. RB-4	BLANK	BLANK	Adj. RB-5	∢	
mangue Train Source of Supply Plant Pumping Plant Water Treatment Plant Transmission & Distribution Plant General Plant		4	Š							•	•	
Pumping Plant Water Treatment Plant Transmission & Distribution Plant General Plant	178.992	9 	464 178.993							, , ,	, i	
Water Treatment Plant Transmission & Distribution Plant General Plant	406,758	•	406,758							,	•	
Transmission & Distribution Plant General Plant	1,423,251	34	1,423,285							•	•	
General Plant	1,914,920	66	1,915,019							1 5		
lotal Gross Plant in Service	3/4,285 \$ 4,298,541	115,709	489,994	69	•	69	, 65	-	\$	\$ 101	101 \$ 101	റിറ
Less:												
Accumulated Depreciation		26,968	1,313,974									6
Net Plant in Service	\$ 3,011,534	\$ 89,025 \$	3,100,560	· &	· •	· \$	- ج	· •	- €9	ნ \$	92 \$	92
Less: Advances in Aid of Construction	61 297	ı	61 297								•	
Contributions in Aid of Construction:)									
Gross	742,146	ı	742,146								,	
Accumulated Amolitzation Net Contributions in Aid of Construction	\$ 690,109	5	(52,037)	\$	•	· &	\$	€9	69	↔	₩	- 1
Deferred Income Tax	•	416,036	416,036								·	
Customer Deposits	11,769	1	11,769								1	
Add: Working Capital	95,402	•	95,402				(2,091)	£			(2,091)	
Net Regulatory Asset / (Liability)		•	•								•	
Total Rate Base	\$ 2,343,761	\$ (327,011) \$	2,016,750	\$	\$	٠	\$ (2,091)		₩	6 8	92 \$ (1,9	181
29 33 31 32 33 34 34 40 40 41 44 44 44 45 55 55 55		(327,011)	2,016,750		, ω				, ф			(1) 398

Plant Classification Intangible Plant Source of Supply Plant Pumping Plant]		-	į	•	7	1	=		2	
Plant Classification Intangible Plant Source of Supply Plant Pumping Plant	Actual	Total	Adjusted	2	<u>.</u>	Rebuttal	Rebuttal Rate Base Adjustments	tru stments	E	2	Total	
Plant Classification Intangible Plant Source of Supply Plant Pumping Plant	End of Test Year	Pro Forma Adjustments	Test Year - <u>As Filed</u>	Rebuttal <u>Adi. RB-1</u>	Rebuttal Adj. RB-2	Rebuttal Adi. RB-3	Rebuttal Adi. RB-4	Rebuttal BLANK	Rebuttal BLANK	Rebuttal Adj. RB-5	Rebuttal Adjustments	Test Year - Rebuttal
Source of Supply Plant Pumping Plant	¥	6			6							•
Pumping Plant		<u>†</u> 0			9,510					. , o	9,510	Ð
	470,357		470,357		•					•	. 1	
Vater Heattilleric Fight	- 970 907 0	na	3 776 705		,						•	
General Plant	21,615	10,583	32,198							on '	· 6	
Total Gross Plant in Service	\$ 3,675,606	\$ 10,609 \$	3,686,215	· •	\$ 9,510	€	69	· ·	6	69 69	\$ 9,519	↔
Less:												
Accumulated Depreciation		2,467	242,563		149							- [
Net Plant in Service	\$ 3,435,510	\$ 8,143 \$	3,443,653	1 69	\$ 9,361	• •	· •	- \$	· •	8	\$ 9,370	↔
Less: Advances in Aid of Construction	3,312,883	1	3,312,883								r	
Contributions in Aid of Construction:			•									
Gross	226,219	ŀ	226,219								,	
Net Contributions in Aid of Construction	\$ 221,170	€ 5	221,170		5	8	·	69		· •	€9	69
Deferred Income Tax Customer Deposits	- 200	38,052	38,052									
Add:											(00)	
Net Regulatory Asset / (Liability)			/pp.'t				(087)				(201)	
Total Rate Base	\$ (94,692)	\$ (29,910) \$	(124,601) \$		\$ 9,361	·	\$ (783)	69	69	8	\$ 8,587	€9
Total Rate Base		(29,910)	(124		190,361		(783)					(9)

		Plant Classification	Source of Supply Plant	Pumping Plant	Water Treatment Plant	Transmission & Distribution Digas	Central Dist	Total Orace Plant in Consider	otal Gross Plant in Service	Less:	Net Plant in Service		Advances in Aid of Construction	Gross	Accumulated Amortization	Net Contributions in Aid of Construction	Deferred Income Tax Customer Deposits	Add: Working Capital	Net Regulatory Asset / (Liability)		iotal Kate Base	
Actual	Test Year		2,117	51,660	77 180	691,12	313,599		\$ 577,978		\$ 360,895		•	21 225	ĺ	\$ 20,241	1,249	0.00	3,		\$ 344,748	
Total	Pro Forma Adjustments		17	0	•			13,405	\$ 13,438		3,124	2	,			<i>•</i>	48,199		. ,		\$ (37,885) \$	
Adjusted	Test Year - As Filed		\$ 2,134	51,660	163,932	27,193	313,610				220,207	607,176		200		1	48,199 1,249		5,343		306,862	
[0]	Rebuttal Adj. RB-1								-			,									φ.	
	Rebuttal Adj. RB-2								6							es					69	
[F] Rebuttal	Rebuttal Adj. RB-3								\$			· ·									\$	
F) [G] [H] Rate Base Adjustments	Rebuttal Adj. RB-4								\$			φ '				9			(483)		\$ (483) \$	
[H] tments	Rebuttal BLANK								\$												₩.	
E.	Rebuttal BLANK								5			· ·				- 69						
5	Rebuttal Adi. RB-5		<i>€</i>			٠	. ,	. +	\$ 12		1	11				- \$					\$ 11	
[天] Total	Rebuttal Adjustments		6	,	•	•		, 1	\$ 12		1	\$ 11	,		,	· ·	•	•	(483)	•	\$ (472)	
[L] Adjusted	Test Year - Rebuttal		5 2 1		163 93	27.40	24264	13,515	\$ 591,428		220,20	\$ 371,219		•	21,225	(984) \$ 20,241	48,199	*	4,860	•	\$ 306,390	

NA WATER CO	Test Year Ended December 31, 2010	Original Cost Rate Base Pro Forma Adjustments
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티	Plant Classification Intangible Plant	Source of Supply Plant Pumping Plant	Water Treatment Plant	Transmission & Distribution Plant	General Plant Total Gross Dlant in Service	otal Gloss Flank il Galvica	Less. Accumulated Depreciation	Net Plant in Service	Less: Advances in Aid of Construction	Contributions in Aid of Construction;	ulated Amortization	wer contained in Aid of Construction	Deferred income Tax Customer Deposits	Add: Working Capital	Net Regulatory Asset / (Liability)	Total Rate Base	
Actual End of Test Year	9,148 \$			ı	6,883,048	6,032,130	1,587,468	5,304,728 \$	•			,	25,368,073	,	,	(20,063,345) \$ 20,063,345	
Total Pro Forma Adjustments	(9,148) \$				(6,883,048)	(6,892,196)	(1.587.468)	I	•				(25,368,073)	ı	ı	20,063,345 \$	
Adjusted Test Year - As Filed	•		•	•	,	1	•					1				1	
Rebuttal						' '	547	۱				· •				\$ (547)	
Rebuttal Adj. RB-2						, 69		69				, 69				· ·	
Rebuttal Rebuttal Adi. RB-3	У	•		,	6,163			\$ 6,163				, 69				\$ 6,163	
Rebuttal Rate Base Adjustments outtal Rebuttal Rebuttal Rebuttal Adj. RB-3 Adj. RB-4 BLAI						ι •		-				, ⇔				φ.	
stments Rebuttal BLANK						' '						, 69				ι •	
Rebuttal BLANK						' ₩						, ()				6	
(5) Rebuttal Adj. RB-5	. ↔	•		' '		\$ (6,163)	(5/47)	\$ (5,617)				- 6 7				\$ (5,617)	
IK) Total Rebuttal <u>Adjustments</u>	₩	•	ſ	' '		ı ⊌		· 69	ı		1 1	ı 69			1	· •	
ادا Adjusted Test Year - <u>Rebuttal</u>	↔					€		89				€>				es es	

Plant Classification Intangible Plant Source of Supply Plant Pumping Plant	1	Actual	Total	Adjusted	•			Rebut	Rebuttal Rate Base Adjustments	se Adjustr	ents				Total		Adjust
Plant Classification Intangible Plant Source of Supply Plant Pumping Plant				•	-	I											
Plant Classification Intangible Plant Source of Supply Plant Pumping Plant	구벨	End of Test Year	Pro Forma Adjustments	Test Year - As Filed	Rebuttal Adi. RB-1		Rebuttal Adj. RB-2	Rebuttal Adj. RB-3	Rebuttal Adj. RB-4		Rebuttal BLANK	Rebuttal BLANK		Rebuttal Adj. RB-5	Rebuttal Adjustments		Test Year Rebuttal
Source of Supply Plant Pumping Plant	¥			•									69	,	6-9	69	
Pumping Plant	•	80	(80)	,									•	•	,		
			1	•										•			
Water Treatment Plant Transmission & Distribution Dlant		2,050	(2,050) (6,066)														
General Plant		146,809	(146,809)											•			
Total Gross Plant in Service	↔		\$ (155,005) \$		€9	₩,		↔	69	69 ,		€	⇔	,	€	69	
Less:		;															
Accumulated Depreciation Net Plant in Service	69	36,404 98,601	(56,404) \$ (98,601) \$	• '	€	69	,	69	89	69	-	69	5		s,	69	
Advances in Aid of Construction		,	ı	•												ı	
Contributions in Aid of Construction:		,	,														
Accumulated Amortization																	
Net Contributions in Aid of Construction	↔		€ 5		69	₩.		· 63	49	↔	٠	69	\$	•	so	↔	
Deferred Income Tax		ı	1	ī												Ū	
Customer Deposits		1	1	1												1	
Add:																,	
Working Capital Net Regulatory Asset / (Liability)																	
otal Rate Base	s	98,601	\$ (98,601) \$	•	es.	<i>\$</i>		€	€	69		€9	4		69	€>	
Total Rate Base	ө	109'86	(98,601)	•	↔			φ	69			မ	 	1	φ-		

Schedule B-2 Rebuttal Appendix Page 1 of 23 Witness: Reiker Exhibit

ARIZONA WATER COMPANY
Test Year Ended December 31, 2010
Rebuttal Rate Base Adjustment RB-1
Partially Accept Staff Rate Base Adjustment No. 1 - Retire Plant No Longer in Service (Superstition)

Superstition	[B]	ш	Plant (Full Year)			1		ı		,	(7,699) (241)	8		•	(115) (3)	(16)	(1,655) \$ (94)		,			9	,		,	•	,			· ·	,	•	•	1		,	,			6		(9,354) \$ (335)		\$ (9,354)	· •					
	[A] Retire	Well Nos. 8 & 17 -	MIGHT	€			,				(7,699)	\$ (669'L) \$:	(115)	(21-2'1-)	\$ (1,655) \$				4								e	•										5		\$ (9,354) \$								
		Depreciation Rate	Vale	0.00%	note_1	note_1		%00.0	0.00%	note 1	3.13%			0.00%	7.85% 5.88%	4.00%		0	0.00%	2.50% 2.86%	2.00.78		0.00%	2.00%	1.79%	2.00%	2.38%	4.55%	0.20.1		0.00%	2.50%	note_2	6.67%	2.00%	4.00.4 %00.4	6.67%	6.67%	3.33%	•	•	,								
			Intangible Plant	1 Organization		3 Other Intangibles	Source of Supply Plant	310.1 Water Rights	310.3 Other Source of Supply Land	4	Μ	Subtotal Source of Sup. Plant	₹	1 Pumping Plant Struct & Images			Subtotal Pumping Plant	water Treatment Plant Nater Treatment Diget 224				ransn						b weiers B Hydrapts		General Plant		-			> 1	t cols, slide & Garage Equip.		-		Subtotal General Plant	1	Total Utility Plant	Accumulated Depreciation		Net Plant					
		Line No.	 _	2 301		5 303					10 314		13 320			16 328	17	336									26 345		31		386			37 393				41 397	42 398	£3	44	45 46	40	48	49	20	2 2	53	54	55

ARIZONA WATER COMPANY
Test Year Ended December 31, 2010
Rebuttal Rate Base Adjustment RB-2
Accept Staff Rate Base Adjustment No. 2 - Capitalize Water Testing Expense (SaddleBrooke)

Exhibit
Schedule B-2 Rebuttal Appendix
Page 2 of 23
Witness: Reiker

Particle Plant	A SaddleBrooke Ranch Rate Well Nos. Well Nos. Well Nos. Well Nos. Well Nos. Satisfies Well Nos. Well Nos. Satisfies Well Nos. Satisfies Well Nos. Satisfies Satisfie	[C] Depreciation	Expense (Full Year)	Ties I	1		,		,		Č	867	067		•	•	.					•		•	,	•		ı			•		,	1		•	1				298		149	9,361	
nigble Plant Organization Organ	Petition			·		ı		•		•	, ,	- 1		•	•	1	€	•	1)	1	•	ì	i	, ,	Þ	49		,	ı		•			•			^	11		₩	€	
Angible Plant Dranchises Subtotal Intangibles Subtotal Intangibles Subtotal Intangibles Subtotal Intangibles Subtotal Intangible Plant Water Rights Other Source of Supply Land Wells - Other Water Branch Equipment Subtotal Pumping Plant Red Treatment Plant Land Water Treatment Plant Water Treatment Plant Water Treatment Plant Subtotal Pumping Plant Ander Treatment Plant Water Treatment Plant Subtotal Water Trimt. Plant ansmission & Distribution Plant Trans, and Dist. Land Subtotal Water Trimt. Plant Subtotal Water Trimt. Plant Subtotal Water Trimt. Plant General Plant Tools, Shop & Garage Equip. Laboratory Equipment Subtotal General Plant Communication Equipment Miscellaneous Equipment Subtotal General Plant Total Utility Plant Accumulated Depreciation (1/2-year con Net Plant	Intangible Plant 301 Organization 302 Franchises 303 Other Intangibles Subtotal Intangible Plant Source of Supply Plant 310.1 Water Rights 310.3 Other Source of Supply Land 310.4 Wells - Other 314 Wells - Other 315 Pumping Plant 320 Pumping Plant 321 Pumping Plant 322 Pumping Plant Struct. & Improv. 323 Pumping Plant Struct. & Improv. 324 Marer Treatment Plant 326 Gas Engine Equipment 327 Subtotal Pumping Plant 328 Water Treatment Plant 330 Water Treatment Plant 331 Water Treatment Plant 332 Water Treatment Plant 333 Water Treatment Plant 334 Fire Sprinkler Taps 345 Storage Tanks 346 Hydrants 347 Services 348 Hydrants 348 Hydrants 349 General Plant Structures 348 Meters 349 General Plant Structures 340 General Plant Structures 341 Fire Sprinkler Taps 342 Sovices 343 Trans. & Dist. Mains 344 Fire Sprinkler Taps 345 Services 346 Meters 347 Communication Equipment 348 Tools, Shop & Garage Equip. 349 Tools, Shop & Garage Equipment 340 Tools, Shop & Garage Equipment 341 Subrotal General Plant 342 Tools Shop & Garage Equipment 343 Tools, Shop & Garage Equipment 344 Miscellaneous Equipment 345 Subrotal General Plant 346 Tools, Shop & Garage Equipment 347 Communication Equipment 348 Miscellaneous Equipment 349 Tools, Shop & Garage Equipment 340 Tools, Shop & Garage Equipment 341 Subrotal General Plant 342 Tools Shop & Garage Equipment 343 Tools, Shop & Garage Equipment 344 Miscellaneous Equipment 345 Subrotal General Plant 346 Fire Plant	[A] Retire	8 & 17 - Mismi	MIGHE	€							9,510	0,0,6									•																		•	9,510				
#OEO 30000 EREBO #200 #100 #200 #200 #200 #200 #200 #200	Inter 301 (1) 302 F 303 (2) 303 (2) 303 (2) 310.1 (3) 310.1 (4) 310.3 (2) 320 F 320 F 320 (2)		Depreciation	200	0.00%	note_1	note_1		0.00%	%00'0	note_1	3.13%		0.00%	2.86%	5.88%	4.00%		0.00%	2.50%	2.86%		0.00%	2.00%	1.79%	2.00%	2.38% 4.55%	1.82%			0.00%	2.50%	10(E_2	5.00%	4.00%	2.00%	6.67%	6.67%	3.33%			;	r convention)		
	3 3 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3			Intangible Plant	•		5	Source of Supply Plant			0.4 Wells - Other	Š	Subtotal Source of Sup. Plant Pumping Plant	ī			is D	Water Treatment Plant			Š	Subjoyate Vater Hills. Flats. Transmission & Distribution Plant	Trans, and Dist. Land	٠,	-		-		•	죳		_				_			SIN .	Subtotal General Plant	Total Utility Plant		Accumulated Depreciation (1/2-yea	Net Plant	

ARIZONA WATER COMPANY
Test Year Ended December 31, 2010
Rebuttal Rate Base Adjustment RB-3
Accept RUCO Rate Base Adjustment No. 1 - True-up Post-Test Year Plant to Reflect Actual Costs

	[a]	Adjstmt' to	Depreciation	Expense	÷	9	•	' 	·		•		1	•	5		•	1		-	·		1	(026.67)	(2,370)	(5'3'0)	,	15		•	•		6	<u>n</u>	•	•	ī	,	•	ı	•				↔		\$ (2,355)	\$ (1,177)	\$ (80,926)		
Superstition			increase/	(Decrease)	6	•	•		, ,		1	•	ı	•	69		•		•	,	, ,		,	(20 00)	(82,867)		•	764		٠	•		100	40/	,		٠		•	•	•	Í	ıİ.	•	, 69		\$ (82,103)				
	[B] Work Authorization	1-4226	Actual	Cost					,						φ,					ļ	, ,			000 002 0	6			764						†0/											СЭ	- 1	\$ 2,789,964				
	Æ	+		Filed	à	2,0	o ()	6	, **		%0	%0	n/a	3%	€9		%0	%9	%8	- 1	, A	7007	2.50%	60% J 073 067	6		%0	2.00%	1.79%	%0	8%	4.55%	1.82%	•	%0	2.50%	n/a	2%	%0	%0	%0	7%	6.67%	3.33%	ر ج		\$ 2,872,067				
			Depreciation	Rate	0000	2				ć	%00 [°] 0	0:00%		3.13%			0.00%	2.86%	5.88%	4.00%		78000	9 6	7.3076	0.7		%00.0	2.0	1.7	2.00%	2.38%	4.5	1.8		%00'0	2.5		6.67%	2.00%	4.00%	2.00%	6.67%	9.9	3.3				ar Convention)			
				111111111111111111111111111111111111111	Intangible Plant	Franchises	Other Internation	Outed Internglibles	Subtotal Intaligible Plant	Source of Supply Plant	310.1 Water Rights	Other Source of Supply Land	310.4 Wells - Other	Wells	Subtotal Source of Sup. Plant	Pumping Plant	Pumping Plant Land	Pumping Plant Struct. & Improv.	Electric Pumping Equipment	Gas Engine Equipment	Subtotal Pumping Plant Water Treatment Dlant	Water Treatment Diant I and	Water Trimt Struct & Improv	Water Treatment Equipment	Vote Heatifier Equipment	Transmission & Distribution Plant	Trans. and Dist. Land	Storage Tanks	Trans. & Dist. Mains	Fire Sprinkter Taps	Services	Meters	Hydrants Subtotal Trace & Diet	General Plant	General Plant Land	General Plant Structures	Leasehold Improvements	Office Furniture & Equipment	Warehouse Equipment	Tools, Shop & Garage Equip.	Laboratory Equipment	Power Operated Equipment	Communication Equipment	Miscellaneous Equipment	Subtotal General Plant		Total Utility Plant	Accumulated Depreciation (1/2-Year Convention)	Net Plant		
				1	201	302	30.5	3	Ö	9 5	310.1	310.3	310.4	314		P	320	321	325	378	W	330	33	333	200	Tra	340	342	343	344	345	346	948 848	e G	389	390	390.1	391	393	394	395	396	397	398							

¹Updated costs provided in response to Staff data request JMM 2.22/RUCO data request 1.30.

Exhibit
Schedule B-2 Rebuttal Appendix
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Witness: Reiker

ARIZONA WATER COMPANY
Test Year Ended December 31, 2010
Rebuttal Rate Base Adjustment RB-3 (Continued)
Accept RUCO Rate Base Adjustment No. 1 - True-up Post-Test Year Plant to Reflect Actual Costs

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Exhibit
Schedule B-2 Rebuttal Appendix
Page 5 of 23
Witness: Reiker

ARIZONA WATER COMPANY
Test Year Ended December 31, 2010
Rebuttal Rate Base Adjustment RB-3 (Continued)
Accept RUCO Rate Base Adjustment No. 1 - True-up Post-Test Year Plant to Reflect Actual Costs

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'Updated costs provided in response to Staff data request JMM 2.22/RUCO data request 1.30.

Exhibit
Schedule B-2 Rebuttal Appendix
Page 6 of 23
Witness: Reiker

ARIZONA WATER COMPANY
Test Year Ended December 31, 2010
Rebuttal Rate Base Adjustment RB-3 (Continued)
Accept RUCO Rate Base Adjustment No. 1 - True-up Post-Test Year Plant to Reflect Actual Costs

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Schedule B-2 Rebuttal Appendix Page 7 of 23 Witness: Reiker Exhibit

ARIZONA WATER COMPANY
Test Year Ended December 31, 2010
Rebuttal Rate Base Adjustment RB-3 (Continued)
Accept RUCO Rate Base Adjustment No. 1 - True-up Post-Test Year Plant to Reflect Actual Costs

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9 9	69		71,791	
69	Accumulated Depreciation (1/2-Year Convention)			
9	Net Plant			

¹Updated costs provided in response to Staff data request JMM 2.22/RUCO data request 1.30.

Exhibit

Schedule B-2 Rebuttal Appendix

Page 8 of 23 Witness: Reiker

ARIZONA WATER COMPANY
Test Year Ended December 31, 2010
Rebuttal Rate Base Adjustment RB-3 (Continued)
Accept RUCO Rate Base Adjustment No. 1 - True-up Post-Test Year Plant to Reflect Actual Costs

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Updated costs provided in response to Staff data request JMM 2.22/RUCO data request 1.30.

ARIZONA WATER COMPANY

Test Year Ended December 31, 2010 Rebuttal Rate Base Adjustment RB-3 (Continued) Accept RUCO Rate Base Adjustment No. 1 - True-up Post-Test Year Plant to Reflect Actual Costs

Schedule B-2 Rebuttal Appendix Page 9 of 23

Witness: Reiker

Exhibit

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*Updated costs provided in response to Staff data request JMM 2.22/RUCO data request 1.30.

Supporting Schedules:

(206)

Schedule B-2 Rebuttal Appendix Page 10 of 23 Witness: Reiker Exhibit

ARIZONA WATER COMPANY
Test Year Ended December 31, 2010
Rebuttal Rate Base Adjustment RB-3 (Continued)
Accept RUCO Rate Base Adjustment No. 1 - True-up Post-Test Year Plant to Reflect Actual Costs

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¹Updated costs provided in response to Staff data request JMM 2.22/RUCO data request 1.30.

Schedule B-2 Rebuttal Appendix Page 11 of 23 Witness: Reiker Exhibit

ARLZONA WATER COMPANY
Test Year Ended December 31, 2010
Rebuttal Rate Base Adjustment RB-3 (Continued)
Accept RUCO Rate Base Adjustment No. 1 - True-up Post-Test Year Plant to Reflect Actual Costs

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Net Plant	-					
	Net Plant					\$ (35,713)

Schedule B-2 Rebuttal Appendix Page 12 of 23 Witness: Reiker Exhibit

ARIZONA WATER COMPANY
Test Year Ended December 31, 2010
Rebuttal Rate Base Adjustment RB-3 (Continued)
Accept RUCO Rate Base Adjustment No. 1 - True-up Post-Test Year Plant to Reflect Actual Costs

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¹Updated costs provided in response to Staff data request JMM 2.22/RUCO data request 1.30.

Exhibit
Schedule B-2 Rebuttal Appendix
Page 13 of 23
Witness: Reiker

Test Year Ended December 31, 2010
Rebuttal Rate Base Adjustment RB-3 (Continued)
Accept RUCO Rate Base Adjustment No. 1 - True-up Post-Test Year Plant to Reflect Actual Costs ARIZONA WATER COMPANY

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^{&#}x27;Updated costs provided in response to Staff data request JMM 2.22/RUCO data request 1.30.

Exhibit
Schedule B-2 Rebuttal Appendix
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Witness: Reiker

ARIZONA WATER COMPANY
Test Year Ended December 31, 2010
Rebuttal Rate Base Adjustment RB-3 (Continued)
Accept RUCO Rate Base Adjustment No. 1 - True-up Post-Test Year Plant to Reflect Actual Costs

Cochise (Continued)

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				₹.	II Work Arr	[B] Work Authorization	<u>.</u>		<u>o</u> .	
				1-4767	4-1 4-1	1-4767		1-4767	Adjstmt' to	
Line			Depreciation	As i	Act	Actual	Incre	Increase /	Depreciation	
<u> </u>	Intangible Plant	ant	Kate		의	Cost	Dec	Decrease)	Expense	
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		S.	n/a						•	
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	Source of Shooly Dlant	Subtotal Intangible Plant	≀7	•	()		69		· ••	
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	310.3 Other Sou	310.3 Other Source of Supply Land	%00°0							
6	310.4 Wells - Other	ther	n/a					•	•	
5	314 Wells		3.13%						•	
_	Subtot	Subtotal Source of Sup. Plant	\$		€9	,	s		·	
12	Jump	ŧ								
<u></u>		Pumping Plant Land	0.00%						•	
4 ;		Pumping Plant Struct. & Improv.	7.86%					•	•	
ច ។	325 Electric P	Electric Pumping Equipment	5.88%					•	•	
	9	Gas Litgille Equipment	800.4 800.4		6			.		
- &	Mater Treatment Diant	Subtotal Fumping Plant Treatment Diant	/		est.	1	49	•	· ÷÷	
2 0	330 Motor Tre	Motor Treatment Diget and	ò							
n c		Saurent Flant Land	0.00%					•	•	
3 2	331 Water In	water I rimt. Struct. & Improv.	2.50%						•	
- 6	8	vvater i rearment Equipment	7.86%						•	
7 8	Subto	Subtotal Water Irimit. Plant	**	ı	/)	•	69	•	' '	
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n k		Storage Lanks	2.00%	000		000		, 0	, ,	
3 5		DISL WANTS	%67.1 0.000.0	280,290		290,283		2,883	6/1	
7 00		rire Sprinkler Laps	2.00%	700		7		, ,		
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8 6	346 ineters		4.55%	11 136				(11 136)	- (203)	
3 5	•	Subtotal Trans & Dist	64.	1	64	293 100	er.	(82 620)	(1 963)	
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33	389 General P	General Plant Land	0.00%						•	
34	390 General P	General Plant Structures	2.50%					•	•	
35	390.1 Leasehold	Leasehold Improvements	n/a						•	
36	391 Office Fur	Office Furniture & Equipment	9.67%					,		
37	393 Warehous	Varehouse Equipment	2.00%							
38	394 Tools, Sho	ools, Shop & Garage Equip.	4.00%					•	•	
33	395 Laborator	-aboratory Equipment	2.00%					1	•	
5	_	Power Operated Equipment	9.67%					•	ı	
7	397 Community	Communication Equipment	9.67%						•	
42	398 Miscellane	Miscellaneous Equipment	3.33%					,	•	
43	Subtot	Subtotal General Plant	₩	ı	ss		€>	١.	4	
4 4	F	1	[*							
ა ი	l otal Utility Plant	ty Plant	€9	375,720	69	293,100	69	(82,620)	\$ (1,963)	
5 4	Accumula	Accumulated Depreciation (1/2-Year Convention)	onvention)						\$ (981)	
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64 6	Net Plant								\$ (81,639)	
20										
. 6										
JM										
24										
,	•									

¹Updated costs provided in response to Staff data request JMM 2.22/RUCO data request 1.30.

ARIZONA WATER COMPANY
Test Year Ended December 31, 2010
Rebuttal Rate Base Adjustment RB-3 (Continued)
Accept RUCO Rate Base Adjustment No. 1 - True-up Post-Test Year Plant to Reflect Actual Costs

Schedule B-2 Rebuttal Appendix Page 15 of 23 Witness: Reiker

Exhibit

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se	₩			₩	•						
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				dated costs provided in response to Staff data request JMM 2.22/RUCO data request 1.30.							
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'Updated costs provided in response to Staff data request JMM 2.22/RUCO data request 1.30.

Exhibit Schedule B-2 Rebuttal Appendix Page 16 of 23 Witness: Reiker

ARIZONA WATER COMPANY
Test Year Ended December 31, 2010
Rebuttal Rate Base Adjustment RB-3 (Continued)
Accept RUCO Rate Base Adjustment No. 1 - True-up Post-Test Year Plant to Reflect Actual Costs

						Coc	Cochise - Total	
				₹	1	<u>[B]</u>	<u></u>	
				Total	YON YON	vvork Authorization Total	Total	Adjstmt' to
Line			Depreciation	As	•		Increase /	Depreciation
힐.	Ī	to Discontinue	Rate	Filed		Cost, (C	(Decrease)	Expense
- 7	30.1	Organization	\$ %00:0	•	€	69		· •Э
က	302	Franchises	n/a	•			•	•
4	303	Other Intangibles	n/a	1		,		•
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9 5	3 3	Fig. Secieties Teach	1.79%	600,070	_	/0/,1cc	(79,852)	(174)
/7	446	Fire Sprinkler Laps	2.00%	- 607			í	
8 8	345	Services	2.38%	133,805		50,538	(83,267)	(1,982)
2 6	9 6	Weters	4.55%	, ,			1 1	1 (
S (348	Hydrants	1.82%	15,558	- 1	- 1	(15,558)	
	(Subtotal Irans, & Dist.	69	724,922	69	602,245 \$	(122,677)	\$ (2,692)
75	ָל פֿ	General Plant						
	383	General Plant Land	0.00%	•				1
8 8	330		2.50%	•		•	i	ı
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37	393	Warehouse Equipment	2.00%	•				1
38	394	Tools, Shop & Garage Equip.	4.00%	1		•	1	•
99	395	Laboratory Equipment	2.00%	•		,	1	
4	396	Power Operated Equipment	6.67%	٠		•	•	1
4	397	Communication Equipment	%29	١		·	•	1
45	398	Miscellaneous Equipment	3.33%	٠		•		
43		Subtotal General Plant	69		€>	69		\$
44								
45		Total Utility Plant	 ↔	724,922	69	602,245 \$	(122,677)	\$ (2,692)
46								
47		Accumulated Depreciation (1/2-Year Convention)	Convention)					\$ (1,346)
t 4		Net Plant						\$ (121 331)
20								
51								
52								
53								
24								
22	,Cpg	'Updated costs provided in response to Staff data request JMM 2.22/RUCO data request 1.30.	data request JMM 2.2	2/RUCO de	ata requ	lest 1.30.		

N:2011_Rate_CaselSchedules/Eastern Group/2011 AWC Rate Case Model REBUTTAL SCHEDULES AWC EG 03.30.12 900am.xlsx/B2.1 Processing Date: 3/30/2012 11:09 AM

Recap Schedules:

ARIZONA WATER COMPANY
Test Year Ended December 31, 2010
Rebuttal Rate Base Adjustment RB-3 (Continued)
Accept RUCO Rate Base Adjustment No. 1 - True-up Post-Test Year Plant to Reflect Actual Costs

Schedule B-2 Rebuttal Appendix Page 17 of 23 Witness: Reiker

Exhibit

[D] Adjstmt to Depreciation	Expense	65			€				•			•	,		65	, •	,	,		•		•	145	₹ ,,	(91)			÷ 54		,	. ,	,	•	•			•	, 	, **	\$ 54		\$ 27		4,229			
1	(Decrease)	, 49	,	e	- 69					6	•		,		•		,	,	,	-		. ,	8,083	,	(3,827)		4 256	4,230	,	,	,		,	,					•	4,256							
[B] Work Authorization 1-4798 Actual	Cost				·					9	•				6								44,369				\$ 44.369	* 000't-										5	ı	44,369 \$							
[A] 1-4798 As Eiled				6	•					\$					5				65	•			36,286		3,827		\$ 40,113												,	40,113 \$							
Depreciation Rate	Vale	0.00%	n/a	n/a		0.00%	0.00%	n/a	3.13%		,	0.00%	2.85%	4.00%	•		0.00%	2.50%	0,00.7		0.00%	2.00%	1.79%	2.00%	2.30% A 55%	1.82%	1		0.00%	2.50%	n/a	6.67%	2.00%	4.00%	6.67%	6.67%	3.33%	103		 	rention)						
	le Plant	Organization Franchises	Other Intangibles	Subtotal Intangible Plant	Source of Supply Plant	r Rights	Other Source of Supply Land	s - Other		Subtotal Source of Sup. Plant	nping Plant Pumping Plant Land	Pumping Plant Struct & Improv	Electric Pumping Equipment	Gas Engine Equipment	Subtotal Pumping Plant Water Treatment Plant	Water Treatment Plant (and	Water Trimt. Struct & Improv	Water Treatment Equipment	Subtotal Water Trtmt. Plant	Transmission & Distribution Plant	I rans. and Dist. Land	Storage Tanks	Hans. & Dist. Mains Fire Sprinkler Tens	Principle (aps)		nts	Subtotal Trans. & Dist.	lant	General Plant Land	General Plant Structures	Office Funding & Equipment	Warehouse Fourthment	Tools, Shop & Garade Equip	-aboratory Equipment	Power Operated Equipment	Communication Equipment	Miscellaneous Equipment	Subtotal General Plant	1	i otal Utility Plant	Accumulated Depreciation (1/2-Year Convention)		ot.				Updated costs provided in resonnes to state and
	쁄	301 Organ		Ø	Source	310.1 Water Rights	310.3 Other	4	314 Wells	ชี :	Pumping Plant 320 Pumping Pl			328 Gas E	Water Tre	330 Wafer			ŊS	ransn		342 Storag	_			348 Hydrants	Sut	क्	300 Genera	-			394 Tools,	395 Laborat	_	_	398 Miscella	Sub	1 1040T	0 10 10 10 10 10 10 10 10 10 10 10 10 10	Accum		Net Plant				Updated costs
Line No.	- 0	NΘ	4	5	9 (۰ ،	10 C	n {	2 ‡	- 5	<u> 2</u>	14	55	16	- 8	19	20	21	52	53	\$ t	3 %	27	28	53	9	3 33	70	3 8	35	38	37	38	39	9	1	45	54 5	45	94	47	8 5	9 G	5 5	52	53	

¹Updated costs provided in response to Staff data request JMM 2.22/RUCO data request 1.30.

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Exhibit Schedule B-2 Rebuttal Appendix

Test Year Ended December 31, 2010 Rebuttal Rate Base Adjustment RB-3 (Continued) Accept RUCO Rate Base Adjustment No. 1 - True-up Post-Test Year Plant to Reflect Actual Costs

ARIZONA WATER COMPANY

(279)Depreciation Adjstmt' to Expense Oracle (Continued) (11,720) 32,675 20,956 (Decrease) Increase / 1-4799 [B] Work Authorization 72,174 72,145 28 1-4799 Actual Cost 11,748 39,470 1-4799 As Filed ₹ 1.79% 2.00% 2.38% 4.55% 5.00% 6.67% 6.67% 3.33% 2.86% 5.88% 4.00% 5.00% 4.00% 0.00% 0.00% 0.00% 3.13% 0.00% 2.50% 2.86% 0.00% 3.00% 0.00% 2.50% ď n/a n/a n/a %00.0 1.82% Depreciation Rate Subtotal Source of Sup. Plant Pumping Plant Struct. & Improv. Subtotal Water Trtmt. Plant Transmission & Distribution Plant Water Trtmt. Struct. & Improv. Office Furniture & Equipment 310.1 Water Rights 310.3 Other Source of Supply Land Electric Pumping Equipment Fools, Shop & Garage Equip. Water Treatment Plant Land Water Treatment Equipment Power Operated Equipment Subtotal Intangible Plant Subtotal Pumping Plant Communication Equipment Subtotal General Plant Subtotal Trans. & Dist. Miscellaneous Equipment Leasehold Improvements General Plant Structures Gas Engine Equipment Warehouse Equipment Laboratory Equipment Trans. and Dist. Land Pumping Plant Land Trans. & Dist. Mains Source of Supply Plant General Plant Land Water Treatment Plant Fire Sprinkler Taps Other intangibles Storage Tanks 310.4 Wells - Other Organization Intangible Plant Franchises Pumping Plant General Plant Hydrants Services Meters Wells 390.1 340 393 394 320 321 325 330 346 348 389 396 397 398 328 345 390 301 391 395 331

'Updated costs provided in response to Staff data request JMM 2.22/RUCO data request 1.30.

20,803

20,956

72.174 \$

51,218

Accumulated Depreciation (1/2-Year Convention)

Net Plant

Total Utility Plant

Recap Schedules:

ARLIZONA WATER COMPANY
Test Year Ended December 31, 2010
Rebuttal Rate Base Adjustment RB-3 (Continued)
Accept RUCO Rate Base Adjustment No. 1 - True-up Post-Test Year Plant to Reflect Actual Costs

Exhibit
Schedule B-2 Rebuttal Appendix
Page 19 of 23
Witness: Reiker

			I			1	Oracle (Continued)	
				₹	[] []	[B] Mork Authorization	<u>[</u>	<u>[</u>
				1-4800	1-4	1-4800	1-4800	Adjstmt' to
Line			Depreciation	As	Ac		Increase /	Depreciation
힐,	3		Rate	Filed	ଧ	Cost,	Decrease)	Expense
- ^	5	Omonitorio	7000			e		
	302	Franchises	6,00%			€		· ·
. 4	303	Other Intangibles	, e					1
LO.		Subtotal Intangible Plant	ŀ	·	69		,	69
9	Ø	Source of Supply Plant						
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6 0	310,3	3 Other Source of Supply Land	0.00%				,	1
o	310.4	310.4 Wells - Other	n/a				,	1
9	314	Wells	3.13%				,	•
-		Subtotal Source of Sup. Plant		•	€9	€9		, S
12	ā	Pumping Plant						
13	320	Pumping Plant Land	0.00%					•
14	321	Pumping Plant Struct. & Improv.	2.86%					
15	325	Electtric Pumping Equipment	5.88%					•
16	328	Gas Engine Equipment	4.00%				,	•
17		Subtotal Pumping Plant		' \$	€9	69	•	' ₩
8	5	Water Treatment Plant						
19	330	Water Treatment Plant Land	%00.0				,	1
20	331	Water Trtmt. Struct. & Improv.	2.50%				,	•
7	332	Water Treatment Equipment	2.86%					•
52		Subtotal Water Trimt. Plant			69	49		6
23	F	Transmission & Distribution Plant				•		
7	340	Trans, and Dist, Land	0.00%				•	•
25	342	Storage Tanks	2.00%				•	
56	343	Trans, & Dist. Mains	1.79%	68,202		92,338	24,136	432
27	344	Fire Sprinkler Taps	2.00%					
28	345	Services	2.38%	19,651			(19,651)	(468)
59	346	Meters	4.55%				•	•
၉	348	Hydrants	1.82%					ı
31		Subtotal Trans. & Dist.	,	\$ 87,853	es	92,338 \$	4,485	(36)
32	O	General Plant						•
33	389	General Plant Land	%00.0				•	•
8	390	General Plant Structures	2.50%				,	•
36	300		6/0				,	
3 %	9 5		B/11 R G 7%				•	,
4 5	5 6	March william & Equipment	8/10/0				•	. ,
5 6	3 6	Tools Ober 9 Consent	3,00%					
9 8	100	Tobogoto Equipment	4.00%				•	
9 5	9 6	Cabolatory Equipment	8,00°C					
₹;	200	Power Operated Equipment	%/9'9				ı	•
- 4	765	Communication Equipment	%/9.9				Ŀ	•
7.5	398	Miscellaneous Equipment	3.33%		į			
ξt :		Subtotal General Plant		' 6	€9	€?	•	· •••
4 :			ı	1	- 1		1	
45		Total Utility Plant	II	\$ 87,853	69	92,338 \$	4,485	\$ (36)
5 4		Accumulated Depreciation (1/2-Year Convention)	convention)					\$ (18)
48								•
49		Net Plant						\$ 4,503
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c	od!	Undated costs provided in response to Staff data request. IMM 2 22/RHCO data reguest 1 30	data reginest JMM.	22/RUCO da	to Fedure	130		
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'Updated costs provided in response to Staff data request JMM 2.22/RUCO data request 1.30.

ARIZONA WATER COMPANY
Test Year Ended December 31, 2010
Rebuttal Rate Base Adjustment RB-3 (Continued)
Accept RUCO Rate Base Adjustment No. 1 - True-up Post-Test Year Plant to Reflect Actual Costs

Schedule B-2 Rebuttal Appendix Page 20 of 23 Witness: Reiker

Exhibit

More Authorities Total Total More Authorities Total Total Total Adjanct Total Adjanct Total Adjanct Adjanct Total Adjanct Ad	March Bit C C C C C C C	Inta 301 302			₹ ;	E Work Aut	3} horization	<u> </u>	<u>(a)</u>
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Source of Supply Plant 100% 20 Other Round 20 Other Round 20 Other Round 20 Other Round 31 Other Round 31 Other Round 32 Other Round 33 Other Round 34 Other Round 35 S S S S S S S S S S S S S S S S S S S	\$ 64,895 \$ (35,198) \$ 1,\$ 29,697 \$ 53 \$ 53	Ō	ubtotal Intangible Plant			U :			'
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¹Updated costs provided in response to Staff data request JMM 2.22/RUCO data request 1.30.

Exhibit
Schedule B-2 Rebuttal Appendix
Page 21 of 23
Witness: Reiker

ARIZONA WATER COMPANY
Test Year Ended December 31, 2010
Rebuttal Rate Base Adjustment RB-3 (Continued)
Accept RUCO Rate Base Adjustment No. 1 - True-up Post-Test Year Plant to Reflect Actual Costs

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¹Updated costs provided in response to Staff data request JMM 2.22/RUCO data request 1.30.

Recap Schedules:

Company Company Working Working Cash Cash Increase / As Filed Rebuttal (Decrease)	\$ 112,550 \$ (54,157 51,282 (2,875)	12,198	(574)	(165) (648) (483)	\$ 252,578 \$ 183,714 \$ (68,864)	\$ 252,578 \$ 183,714 \$ (68,864)	(68.864)
System	Eastern Group Superstition	Cochise San Maniel	Oracle	SaddleBrooke Ranch	Winkeiman	Subtotal	Total	Increase/(Decrease) in Working Cash

Recap Schedules:

ARIZONA WATER COMPANY
Test Year Ended December 31, 2010
Rebuttal Rate Base Adjustment RB-5
Allocate Phoenix Office & Meter Shop Rate Base

Exhibit Schedule B-2 Rebuttal Appendix Page 23 of 23 Witness: Reiker

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A	[D] Allocated	an Manuel	0.0164		,	٠,					6		- 1					69	٠,						€9	69			•	69	. ,	,	. :			- 1		1
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Test Year Adjusted 3-Factor Allocation Ratio Phoenix Office Plant Classification Intrangible Plant Intransmission & Distribution Plant Intrangible Plant Intrangible Plant Intransmission & Distribution Plant Intransmission & Distribution Plant Intransmission & Distribution Plant Intransmission & Distribution Intransmiss	[B] Superstition	0.2865			. ,	,		- 1	1,766		157	2	1,609						,		, ,	.				\$,	,	,	•	1 766			Į		
3-Fa Phoen Plan Total Plan No. 17 A. A. A. A. A. A. A. A. A. A. A. A. A. A	[A] Test Year Adjusted			•Э	•			6 163					5,617				,	•	•	, ,				. .					•	•				6,163	547	5,617		5,617
	v	3-Factor Allocation Ratio	Phoenix Office Plant Classification	Intangible Plant	Source of Supply Plant Pumping Plant	Water Treatment Plant	Transmission & Distribution Plant	General Plant	lotal Gross Plant in Service Less:	Accumulated Depreciation	Net Plant in Service	Deferred Income Tax	Total Rate Base		Meter Shop	Plant Classification	Intangible Plant	Source of Supply Plant Pumping Plant	Water Treatment Plant	Transmission & Distribution Plant	General Plant	Less:	Accumulated Depreciation	Net Plant in Service	Total Rate Book		Total Phoenix Office & Meter Shop	Plant Classification	Source of Superior	Pumping Plant	Water Treatment Plant	Transmission & Distribution Plant	General Plant	Less:	Accumulated Depreciation		Deferred Income Tax	

Winkelman

SaddleBrooke Ranch

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Meter Shop Plant Classification Intangible Plant Source of Supply Plant Pumping Plant Water Treatment Plant Transmission & Distribution Plant General Plant Total Gross Plant	Less: Accumulated Depreciation Net Plant in Service Total Rate Base

	1 1 1 1			-	
	÷	•	69	69	€ 9
		1	0,	- 8	, 80
6	9		€9	€>	69
		126	126	115	115
65	•	-	9	92 \$	€
		101	101	3 6	92
€9			A	65	69
	1 1 1	443	3 6	404	404
49		(0)	,	65	69
•		1,766	157	1,609	1,609
49		69		\$	64
,		6,163	547	5,617	5,617
69		€	ĺ	9	69
읾	Plant				
Total Phoenix Office & Meter Shop Plant Classification Intangible Plant Source of Supply Plant	Pumping Plant Water Treatment Plant Transmission & Distribution Plant	Total Gross Plant in Service	ciation	> C H	<u> </u>
al Phoenix Office & Meterlant Classification Intangible Plant Source of Supply Plant	Pumping Plant Water Treatment Plant Transmission & Distribut	ant is Ptant i	Accumulated Depreciation	Deferred Income Tay	Se
otal Phoenix Office & I Plant Classification Intangible Plant Source of Supply F	Pumping Plant Water Treatmen Transmission &	otal Gros	umulate	Deferre	Total Rate Base
Total Plar Int So	5 × 5 6	2 2	Acc	Less:	Total

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KUTT, Rate_Case\Schedules\Eastern Group/2011 AWC Rate Case Model REBUTTAL SCHEDULES AWC EG 03.30.12 900am.XIsx\B2.1 Processing Date: 3/30/2012 11:09 AM
N. KOT

		Superstition (Superstition (Apache Junction, Superior, Miami)	erior, Miami)
	S S	[A] Company - As Filed <u>Working Capital</u>	[B] Rebuttal <u>Adiustments</u>	[C] Company - Rebuttal Working Capital
Working Cash Requirement (Sch. B-5 Appendix)	↔	173,185 \$	(60,634)	\$ 112,550
Material and Supplies Inventories ¹		29,196	•	29,196
Required Bank Balances¹		624,196	•	624,196
Prepayments & Special Deposits ¹		190,114	•	190,114
Total Working Capital Allowance	s	1,016,691 \$	(60,634)	\$ 956,056

13-month average balances

		රි	chise	Cochise (Bisbee, Sierra Vista)	а)	
		<u> </u>		[8]	<u>5</u>	<u> </u>
	Compa	Company - As Filed		Rebuttal	Company - Rebuttal	ttal
	Work	Working Capital		Adjustments	Working Capital	in.
Working Cash Requirement (Sch. B-5 Appendix)	↔	54,157	69	(2,875) \$		51,282
Material and Supplies Inventories		58,630		•	28	58,630
Required Bank Balances ¹		156,780		1	156	156,780
Prepayments & Special Deposits ¹		49,135		1	49	49,135
Total Working Capital Allowance	64	318,702 \$	69	(2,875) \$		315,827

[C] Company - Rebuttal Working Capital	8,906	36,426	36,269	11,711	93,31
Rebuttal Com	(2,091) \$	1		1	(2,091) \$
- A	69				(4)
[A] Company - As Filed Working Capital	10,997	36,426	36,269	11,711	95,402
Compa	↔				<i>ω</i>
	ŧ	entories 1		eposits ¹	маисе
	Working Cash Requirement (Sch. B-5 Appendix)	Material and Supplies Inventories ¹	Required Bank Balances ¹	Prepayments & Special Deposits ¹	Total Working Capital Allowance

			Oracle	
	Company	[A] Company - As Filed Working Capital	[B] Rebuttal <u>Adjustments</u>	[C] Company - Rebuttal Working Capital
Working Cash Requirement (Sch. B-5 Appendix)	€	14,197 \$	(1,999)	\$ 12,198
Material and Supplies Inventories ¹		1,380		1,380
Required Bank Balances¹		44,254	•	44,254
Prepayments & Special Deposits1		13,505	•	13,505
Total Working Capital Allowance	€	73,335 \$	(1,999)	\$ 71,337

 $\begin{array}{c} \text{Line} \\ \text{No.} \\ \text{No$

	[C] Company - Rebuttal <u>Working Capital</u>	(574)	101	3,254	993	3,775
	S S S	€9				49
anch	(0)	(783) \$,		r	(783)
SaddleBrooke Ranch	[B] Rebuttal Adjustments					
Š		69		-4	_	φ.
	[A] Company - As Filed <u>Working Capital</u>	209	101	3,254	666	4,557
Ì	Ü	€9				
			ntories 1		posits1	чансе
		Working Cash Requirement (Sch. B-5 Appendix)	Material and Supplies Inventories ¹	Required Bank Balances ¹	Prepayments & Special Deposits ¹	Total Working Capital Allowance

	ات) Company - Rebuttal <u>Working Capital</u>	(648)	129	4,122	1,258	4,860
nan	tej Rebuttal Compan <u>Adjustments</u> <u>Workir</u>	(483) \$	ı	1	ì	(483) \$
W	As Filed	(165) \$	129	4,122	1,258	5,343 \$
	C S	↔				es l
		Working Cash Requirement (Sch. B-5 Appendix)	Material and Supplies Inventories ¹	Required Bank Balances ¹	Prepayments & Special Deposits ¹	Total Working Capital Allowance

Communication Communicatio		₹	[8]	<u>5</u>	<u> </u>	Œ.	(F)	[F] [G]	Ξ	Ξ	5	至	[1]
Adjusted Preventer Presidente Presid				Company -	As Filed					Company -	Rehittal		
\$ 1,424,839		Adjusted Results -	Geven	2000	Net	Lead/Lag	Working Cash	Adjusted		Company	Net	Lead / Lag	Working Cash
8 1,424,839 128.53 14.00 1 (13.40) (10.0037) \$ (12.23) \$ 1,425,047 29.53 30.087 (13.44) 861,446 29.82 14.00 69.62 0.0426 119.286 2682,447 29.53 30.087 (13.44) 100,706 29.82 (18.17) 74.00 0.0426 119.286 268.24,40 29.83 (40.00) 99.62 100,706 29.82 (18.17) 74.00 0.0426 71.026 29.83 (40.00) 99.62 100,707 29.83 (18.17) 74.00 0.0426 71.000	Operating Expenses	As Filed	Lag Days	Lag Days ²	Lag Days	ractor [D ÷ 365]	Kequirement [A X E]	Results - Rebuttal	Revenue Lag Days ¹	Expense Lag Days ²	Lag Days [H - I]		Requirement [G X K]
Sept. 41 28.53 4400 153.50 0.0469 113.78 2.862.41 28.53 4.00 15.54 13.54 13.54 28.53 4.00 15.55 4.00 0.156 13.54 13.54 28.53 4.00 0.156 13.54 28.53 4.00 0.156 28.53 4.00 0	Purchased Power		29.53	30.87	(1.34)	(0 0037)			60	000		. i	
1907/05 29-53 (40.09) 68-52 17000 1907 17000 1907 17000 1907	rayroll	2,662,431	29.53	14.00	15.53	0.0426	-		29.53	30.87	(1.34)	_	\$ (5,224)
1937/05 29.53 (45.77) 47.64 17	Purchased Water	691,466	29.53	(40.09)	69.62	0.1907	131.894	691 466	29.53	14.00	15.53	0.0426	113,2
188724 29.53 (45.77) 74.80 0.2049 7.553 (46.57) 74.80 10.2049 18.754 20.55 (46.57) 74.80 10.2049 18.85		130,705	29.53	(18.11)	47.64	0.1305	17,060	130 705	29.53	(10.03)	70.02	0.1307	2 7
Second S	Workman's Compensation Inclined	158,734	29.53	(45.27)	74.80	0.2049	32,530	158,734	29.53	(45.27)	74.80	2000	
Company Comp	Health logination	36,305	29.53	(46.50)	76.03	0.2083	7,563	36,305	29.53	(46.50)	76.03	0.2043	32,0
2,555.77 28.55 (9.27) 38.80 0.10; 32.347 9.10; 32.80 0	Other Oak / Eveluding Both Conn Event	481,608	29.53	(8.92)	38.45	0.1053	50,736	481,608	29 53	(18.92)	28.45	0.2003	505,7
1680,028 28.53 37.00 74.71 0.02269 34.865 34.865 37.60 74.71 38.65 38.65 37.00 74.71 38.65 38.65 37.00 74.71 38.65 38.65 37.00 74.71 38.65 38.65 37.00 74.71 38.65 38.65 37.00 74.71 38.65 38.65 37.00 74.71 38.65 38.65 37.00 74.71 38.65 38.65 37.00 74.71 38.65 38.65 37.00 74.71 38.65 37.65 37.00 74.71 38.65 37.65 37.00 74.71 38.65 37.65 37.00 74.71 38.65 37.65 37.00 74.71 38.65 37.65	Enderal Income Toxon	2,255,527	29.53	(9.27)	38.80	0.1063	239,778	2.199.050	29.53	(20.02)	38.80	0.1053	927,00
1985 28 28 37 00 (747) (1482) (3	State Income Tools	1,660,023	29.53	37.00	(7.47)	(0.0205)	(33,965)	1,655,343	29.53	37.00	747	(0.000)	7,007
1985 25 25 25 25 25 25 25	FICA Taxes	365,688	29.53	37.00	(7.47)	(0.0205)	(7,482)	364,657	29.53	37 00	(7 47)	(0.0205)	(55,069)
6.196 2.955 2.91	FUTA & SUITA Taxes	199,553	29.53	14.00	15.53	0.0426	8,492	199,553	29.53	14.00	15.53	0.0426	8 492
158 28 28 28 28 28 28 28	Property Taxes	b, 196	29.53	83.10	(53.57)	(0.1468)	(606)	6,196	29.53	83.10	(53.57)	(0.1468)	(906)
\$ 11,285,548 \$ 29.53 \$4.72 \$ (5.19) \$ (0.0142) \$ (3.509) \$ 153,883 \$ 29.53 \$ (98.83) \$ (28.83) \$	Registration Svc Contracts & Misc Fees	011,090	29.53	212.00	(182.47)	(0.4999)	(405,776)	921,351	29.53	212.00	(182.47)	(0.4999)	(460,595)
\$ 11,285,548 \$ 198,605 \$ 11,333,224 \$ 1,682,249 28.53 91.25 (61.72) (0.16909) (286,143) 1687,478 29.53 91.25 (61.72) \$ 4,914,647 \$ 4,914,647 \$ (25,420) \$ (490,792) \$ (4,234,015)	Retirement Annuities (401k)	246.884	29.53	(98.83)	128.36	0.3517	54,120	153,893	29.53	(98.83)	128.36	0.3517	54,120
\$ 11,285,546 \$ 10,285,546 \$ 10,285,546 \$ 10,285,546 \$ 10,285,546 \$ 10,18909) \$ 1,285,143 \$ 1,285,244 \$				1	(2.5)	(0.0142)	(2,509)	246,884	29.53	34.72	(5.19)	(0.0142)	(3,509)
\$ 4.974.647 \$ 1.682.249	Subtotal							\$ 11333 224				6	127 800
\$\frac{3,222,337}{3,222,337}\$\frac{25,53}{29,53}\$\frac{1,500,196}{16,200,196}\$\frac{1,500,196}{1,6,200,196}\$\frac{1,6,200,196}{1,6,200,196}\$\frac{1,6,200,196}{1,6,200,196}\$\frac{1,6,200,196}{1,6,200,196}\$\frac{1,6,200,196}{1,6,200,196}\$\frac{1,6,200,196}{1,6,234,016}\$\frac{1,6,200,196}{1,6,234,016}\$\frac{1,6,200,196}{1,6,234,016}\$\frac{1,6,200,196}{1,6,234,016}\$\frac{1,6,200,196}{1,6,234,016}\$\frac{1,6,200,196}{1,6,234,016}\$\frac{1,6,234,016}	Interest Expense	00000	Č									7	
\$ 4,914,647 \$ 4,900,792 16,200,195 \$ 173,185	Cost of Equity	3,222,397	29.53	52.18	(61.72) 29.53	(0.16909) 0.08091	(286,143) 260,723	1,687,478 3,213,313	29.53	91.25	(61.72)	(0.16909)	(285,336)
16,200,196 \$ 173,185	Subtotal					1					65:63	- 1	
16,200,195												69	(25,349)
	Total	16.200.195											- 1
2010 Actual lag days per AWC billing system. Dec. No. CACABS as amended by Dec. Nos. 66849 water lag days per Dec. No. 77845.		20, 204, 21						- 11				\$	112,550
2010 Actual lag days per AWC billing system. Dec. No. 64282 as amended by Dec. Nos. 66849 k 68302. Purchased power and purchased rater lag days per Dec. No. 71845.													
2010 Actual lag days per AWC billing system. Dec. No. 64282 as amended by Dec. Nos. 66849 & 68302. Purchased power and purchased vater lag days per Dec. No. 71845.													
2010 Actual lag days per AWC billing system. Dec. No. 64282 as amended by Dec. Nos. 66849 & 68302. Purchased power and purchased water lag days per Dec. No. 71845.													
2010 Actual lag days per AWC billing system. Dec. No. 64282 as amended by Dec. Nos. 66849 & 68302. Purchased power and purchased water lag days per Dec. No. 71845.													
	2010 Actual lag days per AWC billing system. Dec. No. 64282 as amended by Dec. Nos. 66849 & 68302. Purchased power and purchased vater lag days per Dec. No. 71845.												

						Cochise (Bisbee, Sierra Vista)	Sierra Vista)					
	<u>₹</u>	[8]	[0]	<u>[a</u>]	<u>[E]</u>	E	[9]	Ξ	Ξ	5	区	2
			Company - As Filed	As Filed					Company - Rebuttal	- Rebuttal		
	Adjusted			Net	Lead / Lag	Working Cash	Adjusted			Set Set	Lead / Lag	Working Cash
	results a	reveriue	Expense	reg Days	racior CD + 3651	Requirement (A V C)	Results -	revenue	Expense	Lag Days	Factor	Requirement
Operating Expenses	DE LIEU	Lag Days	Lay Days	2	265	NA E	Kepolitai	Lay Days	rad Days	-	C00 + C	N V D
Purchased Power	\$ 448,281	30.32	30.87	(0.55)	(0.0015)	\$ (673)	\$ 451,385	30.32	30,87	(0.55)	(0.0015)	\$ (678
Payroll	843,054	30.32	14.00	16.32	0.0447	37,700	843,054	30.32	14.00	16.32	0.0447	37,700
Purchased Water	•	30.32	,	30.32	0.0831			30.32	•	30.32	0.0831	•
Chemicals	27,617	30.32	(18.11)	48.43	0.1327	3,665	27,617	30.32	(18.11)	48.43	0.1327	3,665
Property & Liability Insurance	39,836	30.32	(45.27)	75.59	0.2071	8,250	39,836	30.32	(45.27)	75.59	0.2071	8,250
Workman's Compensation Insurance	9,111	30.32	(46.50)	76.82	0.2105	1,918	9,111	30.32	(46.50)	76.82	0.2105	1,918
Health Insurance	145,704	30.32	(8.92)	39.24	0.1075	15,665	145,704	30.32	(8.92)	39.24	0.1075	15,665
Other O&M (Excluding Rate Case Expense)	499,540	30.32	(9.27)	39.59	0.1085	54,186	485,236	30.32	(9.27)	39.59	0.1085	52,634
Federal Income Taxes	280,666	30.32	37.00	(6.68)	(0.0183)	(5,135)	276,558	30.32	37.00	(89.9)	(0.0183)	(2,060)
State Income Taxes	61,828	30.32	37.00	(6.68)	(0.0183)	(1,131)	60,923	30.32	37.00	(6.68)	(0.0183)	(1,115
FICA Taxes	63,246	30.32	14.00	16.32	0.0447	2,828	63,246	30.32	14.00	16.32	0.0447	2,828
FUTA & SUTA Taxes	1,882	30.32	83.10	(52.78)	(0.1446)	(272)	1,882	30.32	83.10	(52.78)	(0.1446)	(272
Property Taxes	148,178	30.32	212.00	(181.68)	(0.4977)	(73,755)	151,085	30.32	212.00	(181.68)	(0.4977)	(75,202
Registration, Svc. Contracts, & Misc. Fees	40,447	30.32	(98.83)	129.15	0.3538	14,312	40,447	30.32	(98.83)	129.15	0.3538	14,312
Refirement Annuities (401k)	74,691	30.32	34.72	(4.40)	(0.0120)	(006)	74,691	30.32	34.72	(4.40)	(0.0120)	006)
Č						ł	- i					
Subtotal	\$ 2,684,082					\$ 56,656	\$ 2,670,776					53,744
Interest Expense	286.114	30,32	91.25	(60.93)	(0,16693)	(47.760)	281,927	30.32	91.25	(60.93)		(47,061
Cost of Equity	544,822	30.32		30.32	0.08307	45,261	536,848	30.32	•	30.32	0.08307	44,598
Subtotal	\$ 830,936					\$ (2,499)	\$ 818,775					\$ (2,463)
1 1 1							100					
100	3,510,616					54,15/	3,489,551					707'IC ¢

¹2010 Actual lag days per AWC billing system.
²Dec. No. 64282 as amended by Dec. Nos. 66849
⁸ 68302. Purchased power and purchased
water lag days per Dec. No. 71845.

Open Market Company As Finance Company As Fin	perating Expenses Purchased Power Payroll												
Adjustment Resultine Res	perating Expenses Purchased Power Payroll			Company -	As Filed					Company -	- Rebuttai		
8 Author of Samural Leg Care 1 D - 385 AA Elled Leg Care 2 Leg Care 3 Leg Care 3 <td>perating Expenses Purchased Power Payroll</td> <td>Adjusted Results -</td> <td>Revenue</td> <td>1</td> <td>Net 1 an Davs</td> <td></td> <td>Working Cash</td> <td>Adjusted</td> <td>olinove G</td> <td>Expanse</td> <td>Net</td> <td></td> <td>Working Cash</td>	perating Expenses Purchased Power Payroll	Adjusted Results -	Revenue	1	Net 1 an Davs		Working Cash	Adjusted	olinove G	Expanse	Net		Working Cash
\$ 1,005 \$ 1,005 \$ 1,005 \$ 1,005 \$ 2,005 \$ 1,005 <t< td=""><td>Purchased Power Payroll</td><td>As Filed</td><td>Lag Days1</td><td>Lag Days²</td><td>(B - C)</td><td>[D + 365]</td><td>[A X E]</td><td>Rebuttal</td><td>Lag Days</td><td>Lag Days²</td><td>[H - I]</td><td>[] + 365]</td><td></td></t<>	Purchased Power Payroll	As Filed	Lag Days1	Lag Days ²	(B - C)	[D + 365]	[A X E]	Rebuttal	Lag Days	Lag Days ²	[H - I]	[] + 365]	
67,897 9,015 9,014 411 0,0143 9,880 218,789 30,15 0,044 9,880 218,789 30,15 0,014 411 0,0143 9,880 218,789 30,15 0,014 411 0,0143 30,15 0,014 411 0,0143 30,15 0,014 411 0,0143 30,15 0,014 411 0,0143 30,15 0,014 411 0,014 30,15 0,014 411 0,014 30,15 0,014 411 0,01			30.15	30.87	(0.72)					30.87	(0.72)		
1,000,000 1,00	Purchased Water	372 967	30.15 30.15	74.00 26.04	16.15	0.0443	9,680	218,739		14.00	16.15	0.0443	9,680
2.078 30.15 (46.57) 75.4 0.2066 (1878 2015 (1878 2015 (1878) 2015	Chemicals	3,034	30.15	(18.11)	48.26	0.0113	4,202	3,034		78.14	4 4. - 1.4 - 26	0.0113	3,278
2,078 30,15 (46,50) 76,50 0,2100 436 30,98 30,15 (46,50) 76,60 0,2100 30,38 30,15 (46,50) 76,60 0,2100	Property & Liability Insurance	980'6	30.15	(45.27)	75.42	0.2066	1.878	980 6		(45.27)	75.42	0.2066	1878
133,283 301 6 (82) 3907 0 1070 165 4 40,510 3015 6 (22) 3942 0 1000 165 4 40,510 3015 6 (22) 3942 0 1000 165 4 40,510 3015 6 (22) 3942 0 1000 165 4 40,510 3015 6 (22) 3015 2 (20)	Workman's Compensation Insurance	2,078	30.15	(46.50)	76.65	0.2100	436	2.078		(46.50)	76.65	0.2100	436
1538 30.15 62.77 39.42 0.1080 16.614 140.510 30.15 62.77 39.42 0.1080 16.614 140.510 30.15 62.77 39.42 0.1080 16.614 140.510 30.15 3	Health Insurance	33,958	30.15	(8.92)	39.07	0.1070	3,635	33,958		(8.92)	39.07	0.1070	3,635
1,200,300 30.15 37.00 (6.65) (0.0189) (17.42) (4.65) (0.0189) (17.42) (4.65) (0.0189) (17.42) (4.65) (0.0189) (17.42) (4.65) (4.65) (0.0189) (17.42) (4.65) (4.	Other O&M (Excluding Rate Case Expense)	153,827	30.15	(9.27)	39.42	0.1080	16,614	140,510		(9.27)	39.42	0.1080	15,176
14,422 30.15 47.00 68.8) 16.45 30.15 14.568 30.15 14.57 10.15 1	rederal income laxes	66,196	30.15	37.00	(6.85)	(0.0188)	(1,242)	66,131		37.00	(6.85)	(0.0188)	(1,24)
1,006,389	State income Taxes	14,582	30.15	37.00	(6.85)	(0.0188)	(274)	14,568		37.00	(6.85)	(0.0188)	(27:
\$4,539	FILTA & SHITA Tayes	10,443	30.15	0.4.00	16.15	0.0443	728	16,443		14.00	16.15	0.0443	72
\$ 1,006.369 \$ 10.0	Property Taxes	243	30.15	83.10	(52.95)	(0.1451)	(79)	545		83.10	(52.95)	(0.1451)	
17,408 30.15 34.72 (4.57) (0.0125) (2.18) 17,408 30.15 34.72 (4.57) (0.0125) 5	Registration, Svc. Contracts, & Misc. Fees	8,929	30.15	(98.83)	128 98	0.3534	3.155	03,980 909 8		(98.83)	(181.85)	(0.4982)	3 15
\$ 1,006,389 67,481 30.15 91.25 (61.10) (0.16739) (11,296) 67,414 30.15 91.25 (61.10) (0.16739) (128,496 30.15 90.	Retirement Annuities (401k)	17,408	30.15	34.72	(4.57)	(0.0125)	(218)	17,408		34.72	(4.57)	(0.0125)	(218)
\$ 11,000,389 \$ 11,677 \$ 910,161 \$ 910,161 \$ 91,25 (61,10) (0.16739) (11,286) 67,44 30.15 9.125 (61,10) (0.16739) (11,28498 30.15 9.015 0.08281 10,815 980 \$ 195,980 \$ 10,897 \$ 11,000,389 \$ 10,897													
67.481 30.15 91.25 (61.10) (0.16739) (11.296) 67,414 30.15 91.25 (61.10) (0.16739) 7.28,488 30.15 - - 30.15 0.08261 - 30.15 0.08261 \$ 195,980 \$ (681) \$ (681) \$ 10.67765 \$ 1,202,368 \$ 1,105,947 \$ 1,105,947 \$	Subtotal												\$ 9,586
\$ 195,980 \$ 10,897 1,105,947 \$ \$ 10,897 1,105,947 \$ \$ 10,897 1,105,947 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	Interest Expense Cost of Equity	67,481 128,498	30.15 30.15	91.25	(61.10) 30.15	(0.16739)	(11,296) 10,615	67,414 128,371		91.25	(61.10) 30.15	(0.16739)	(11,285) 10,605
1,105,947	Subtotal												-
1,105,947 5 10,997 1,105,947 5													
	Total	1,202,368						1,105,947					906'8
710 Actual lag days per AWC billing system. ec. No. 64282 as amended by Dec. Nos. 66849 68302. Purchased power and purchased ter lag days per Dec. No. 71845.													
110 Actual lag days per AWC billing system. ec. No. 64282 as amended by Dec. Nos. 66849 68302. Purchased power and purchased ter lag days per Dec. No. 71845.													
	710 Actual lag days per AWC billing system. ec. No. 64282 as amended by Dec. Nos. 66849 68302. Purchased power and purchased ter lag days per Dec. No. 71845.												

ARIZONA WATER COMPANY Test Year Ended December 31, 2010 Computation of Working Cash Requirement

[1]	Working Cash Requirement [G X K] (91) 8,872 - 515 2,348 546 3,782 16,565 (1,446) (319) 665 (22,238) 3,338 (204)	12,863	(13,991) 13,326	(665)
[K]	Lead / Lag V Factor F factor F (0.0008) \$ (0.00454 0.0837 0.1333 0.2078 0.2111 (0.0176)	€	(0.16739) 0.08373	<i></i>
[7]	Rebuttal Net Lag Days [H-] (0.31) (6.31) (6.56 30.56 48.67 75.83 77.06 39.83 (6.44) (6.44) (6.44) (6.254) (181.44) 129.39 (4.16)		(61.10) 30.56	
(i)	Company - Rebuttal Net Expense Lag Days [H-II] 30.87 (0.3 14.00 16.5 (18.11) 48.6 (45.27) 75.8 (46.50) 77.0 (6.44.10 17.00 (181.40 17.00 (181.40 17.00 (181.40 18.31 129.33 34.72 (4.16.31)		91.25	
Ξ	Revenue 30.56 30.56 30.56 30.56 30.56 30.56 30.56 30.56 30.56 30.56 30.56 30.56 30.56 30.56 30.56 30.56		30.56 30.56	
[6]	Adjusted Results - Rebuttal	\$ 696,250		\$ 242,745
Oracle [F]	\$ (91) \$ (91) \$ (91) \$ (91) \$ (92) \$ (93) \$ (94) \$ (94) \$ (94) \$ (94) \$ (94) \$ (1430) \$ (1430) \$ (1430) \$ (20,625) \$ (99) \$ (20,625) \$ (204)	14,854	5.6	(657)
(E)	Lead / Lag Factor (0.0008) 0.0454 0.0837 0.1333 0.2111 0.1081 0.0176) (0.0176) 0.0454 (0.1439)	φ.	0.16739)	9 69
(D)	Net Lag Days (0.31) 16.56 30.56 48.67 77.06 39.48 39.48 39.48 (6.44) (6.44) (6.44) (6.44) (16.56 (52.54) (181.44) 129.39 (4.16)		(61.10)	
[C] [D]	Expense Lag Days ² 30.87 14.00 (18.1) (45.27) (46.50) (8.92) (9.27) 37.00 14.00 83.10 212.00 (98.83) 34.72		91.25	
[8]	Revenue 30.56 30.56 30.56 30.56 30.56 30.56 30.56 30.56 30.56 30.56 30.56 30.56 30.56 30.56 30.56		30.56	
[A]	Adjusted Results - As Filed \$ 107,154 196,535 11,303 2,865 34,962 15,084 81,079 17,861 14,659 47,912 17,922 17,922	\$ 695,081	82,653 157,389 \$ 240,043	935,123
	Operating Expenses Purchased Power Payroll Purchased Water Chemicals Property & Liability Insurance Workman's Compensation Insurance Health Insurance Other O&M (Excluding Rate Case Expense) Federal Income Taxes State Income Taxes FICA Taxes FICA Taxes Property Taxes Property Taxes Registration, Svc. Contracts, & Misc. Fees	Subtotal	interest Expense Cost of Equity Subtotal	Total

ARIZONA WATER COMPANY Test Year Ended December 31, 2010 Computation of Working Cash Requirement

Line	[¥]	[8]	[0]	[0]	E	SaddleBrooke Ranch [F]	ke Ranch [G]	至	Ξ	5	至]2
No.	Adjusted		Company - As Filed	As Filed					Company - Rebuttal	- Rebuttal		;
Operating Expenses Purchased Power	R R.	Revenue <u>Lag Days</u> ¹	Expense Lag Days ²	Net Lag Days [<u>B - C]</u>	Lead / Lag Factor [D ÷ 365]	Working Cash Requirement [A X E]	Adjusted Results - Rebuttal	Revenue Lag Days ¹	Expense Lag Days ²	Net Lag Days [H-I]	Lead / Lag Factor [J+365]	Working Cash Requirement [G X K]
Payroll Purchased Water	\$ 103,754 10,235	28.62 28.62 28.62	30.87	(2.25)	(0.0062)	\$ (641)	\$ 103,754 10,235	28.62	30.87	(2.25)	(0.0062) \$	
Chemicals Property & Liability Insurance	. ;	28.62	(18.11)	46.73	0.00/1		,	28.62	26.04	2.58	0.0071	,
Workman's Compensation Insurance	831	28.62	(45.27)	73.89	0.2024	168	831	28.62	(18.11)	46.73	0.1280	, ;
Health Insurance Other O&M (Evoluding Botto Cooper Free Cooper	1,338	28.62	(8.92)	37.54	0.2058	39	190	28.62	(46.50)	75.12	0.2058	99. 33
Federal Income Taxes	29,583		(9.27)	37.89	0.1038	3.071	1,338	28.62	(8.92)	37.54	0.1028	÷
State Income Taxes	(4,090) (901)	28.62 28.62	37.00	(8.38)	(0.0230)	94	(D)	28.62	37.00	37.89	0.1038	3,062
FILTA PAKES	772	28.62	14.00	(0.30)	0.0230)	21	(0)	28.62	37.00	(8.38)	(0.0230)	0
Property Taxes	25	28.62	83.10	(54.48)	(0.1493)	<u>3</u>	77.	28.62 28.62	14.00	14.62	0.0400	
Registration, Svc. Contracts, & Misc. Fees Retirement Annuities (404t)	817	28.62 28.62	212.00 (98.83)	(183.38) 127.45	(0.5024) 0.3492	(3,484)	6,908	28.62	212.00	(183.38)	(0.5024)	(4)
(4104) 2022	989	28.62	34.72	(6.10)	(0.0167)	(11)	989	28.62 28.62	(98.83) 34.72	127.45 (6.10)	0.3492 (0.0167)	285
Subtotal	\$ 150.176											
					07	\$ 116	\$ 155,052				69	
Interest Expense Cost of Equity	(4,169) (7,939)	28.62 28.62	91.25	(62.63) 28.62	(0.17160)	715		28.62	91.25	(62.63)	(0.17160)	•
Subtotal	\$ (12,108)							79.97	1	28.62	0.07840	(280)
					→		(785,7)			ı	€\$	(280)
i otal	138,068				\$	509	147.660				6	
											n en	(574)
'2010 Actual lag days per AWC billing system. ² Dec. No. 64282 as amended by Dec. Nos. 66849 & 68302. Purchased power and purchased water lag days per Dec. No. 71845.												

¹²⁰¹⁰ Actual lag days per AWC billing system.

Dec. No. 64282 as amended by Dec. Nos. 66849
& 68302. Purchased power and purchased
water lag days per Dec. No. 71845.

ARIZONA WATER COMPANY
Test Year Ended December 31, 2010
Computation of Working Cash Requirement

Schedule B-5 Rebuttal Appendix Page 6 of 6 Witness: Reiker

[L]	(506)	(142)
[K] Lead / Lag W Factor R [J + 365] (0.0033) \$ 0.0430 0.0813 0.10813 0.10883 0.2087 0.2087 0.1058 0.1068 0.1067 (0.0201) (0.0201) (0.0201) (0.0430 (0.1464) (0.4935)	\$ (0.16868)	0.08132
[J] Rebuttal Net Lag Days [H-I] (1.19) 15.68 29.68 47.79 74.95 76.18 38.95 (7.32) (7.32) (7.32) 15.68 (53.42) (182.32) 128.51 (5.04)	(61.57)	
(I) [J] Company - Rebuttal Expense Lag Days Lag Days [H - I] 30.87 [H - I] 30.87 [1.1] 47.73 [45.2] (45.27) 74.99 (46.50) 76.16 (8.92) 38.66 (9.27) 38.97 (7.32) 38.9	91.25	
[H] Revenue 29.68 29.68 29.68 29.68 29.68 29.68 29.68 29.68 29.68 29.68 29.68 29.68 29.68 29.68 29.68 29.68 29.68	29.68	
### ### ### ### ### ### ### ### ### ##	\$ 83,398 10,252 19,522	\$ 29,774
Winkelman [F] Working Cash Requirement [A.X.E] (22) 888 - 760 216 50 389 2,006 (202) (44) 67 (7) (7) (7) (84) 364 (26)	(23) (1,732) 1,590	(142)
[E] Lead / Lag / Factor [D+365] (0.0033) \$ (0.0430 0.0813 0.1309 0.2087 0.1058 0.1067 (0.0201) 0.0430 (0.1464) (0.0495) 0.3521 (0.0138)	\$ (0.16868) 0.08132	()
[D] As Filed Net Lag Days [BC] (1.19) 15.68 29.68 47.79 74.95 74.95 76.18 38.96 (7.32)	(61.57) 29.68	
C D C D C C C C C C	91.25	
(B) Revenue Lag Days. 29.68 29.68 29.68 29.68 29.68 29.68 29.68 29.68 29.68 29.68 29.68 29.68 29.68 29.68 29.68 29.68	29.68	
Adjusted Results - As Filed Results - As Filed 20,662 241 2807 1,053 241 3,680 18,797 10,072 2,219 1,549 50 8,931 1,035 1,887		112,584
Operating Expenses Purchased Power Payroll Purchased Water Chemicals Property & Liability Insurance Workman's Compensation Insurance Workman's Compensation Insurance Health Insurance Other O&M (Excluding Rate Case Expense) Federal Income Taxes FICA Taxes FICA Taxes FOPPETY & SUTA Taxes Property Taxes Registration, Svc. Contracts, & Misc. Fees Registration, Svc. Contracts, & Misc. Fees	Interest Expense Cost of Equity Subtotal	Total

(648)

'2010 Actual lag days per AWC billing system.
²Dec. No. 64282 as amended by Dec. Nos. 66849
[&] 68302. Purchased power and purchased
water lag days per Dec. No. 71845.

	ζ	<u>@</u>	<u>ට</u>	<u></u>	Ш	Ξ	<u>ত</u>
) }	i 		•	•	2	[
Onersting Beyaning	lest Year Ended 12/31/2010	Pro Forma Adjustments - <u>As Filed</u>	Adjusted Test Year - As Filed	Rebuttal <u>Adjustments</u>	Adjusted Test Year - Rebuttal	Required Increase - <u>Rebuttal</u>	Adjstď w/ Increase - Rebuttal
Residential Commercial	\$ 16,329,000	\$ (957,656)	\$ 15,371,345	· · · · · · · · · · · · · · · · · · ·	\$ 15,371,345		
Industrial	101,432	(24,853)	76,580	, ,	76,580		
Private Fire Service Other Water Revenues	34,961	33,541	68,502	•	68,502		
Total Water Revenues	\$ 21,059,873	\$ (1,342,726)	\$ 19,717,147	· · ·	\$ 19,717,147		
Miscellaneous		ì		,	799,406		
rotal Operating Revenues	\$ 21,923,809	\$ (1,407,256)	\$ 20,516,553	· · ·	\$ 20,516,553	\$ 5,198,671 \$	\$ 25,715,224
Operating Expenses Source of Supply Expenses:							
Purchased Water	865,517	198,916	1,064,433	(82,364)	982,069	•	982,069
Pumping Expenses:	109,899	8,910	118,809	(986)	117,823	•	117,823
Purchased Power	2,097,543	27,322	2,124,865	3,537	2,128,402	,	2,128,402
Purchased Gas	1,606	•	1,606	. •	1,606	•	1,606
Water Treatment Expenses	681,527	85,853	767,380	(7,573)	759,807	1	759,807
Transmission & Distribution Expenses	1 889 939	671,204	752,612	(10,732)	742,080	,	742,080
Customer Accounting Expenses	1,671,765	97,095	1,768,860	(18,616)	1,750,244		1,750,244
Sales Expense	, 000	1 6		1	. '	1	•
Total Operations & Maintenance Expense	\$ 10,644,216	369,013	\$ 12,130,602	(27,284)	11 964 006	· ·	11 964 006
Depreciation & Amortization Expenses	3 300 667	270 232	3 570 800	(990 6)	2 567 635		
				(0,2,0)	ביים ביים ביים	•	0,36,795,0
Taxes Federal Income Taxes	100 200	1000 0037					
State Income Taxes	111,542	(333,009)	100.097	20,780 4 578	4/5,165 104 675	1,614,915	2,090,081
Property Taxes	917,960	68,671	986,631	108,105	1,094,736	93,169	1,187,906
Other	-	- 1	257,300		257,300	٠	257,300
lotal laxes	\$ 4,067,018	\$ (2,268,605)	\$ 1,798,413	\$ 133,463 \$	1,931,876	\$ 2,063,836 \$	<i>ι</i> ο΄
Total Operating Expenses	\$ 18,011,901	\$ (511,986)	17,499,915		17,463,517	\$ 2,063,836 \$	19,527,353
Operating income	3,911,908	\$ (895,269)	\$ 3,016,638	\$ 36,397 \$	3,053,036	3,134,835	1 11
Other Income & Deductions:							
intelest. Long-Term Debt	2,105,299	29.297	2 134 597	(3 941)	2 130 656	,	2 130 656
Short-Term Debt	48,532	(48,532)	·	(:)	-		200,001,1
Total Interest	(129,894)	129,894	2 734 507	, ,	- 0000	4	- 1
	2,023,936		7,134,597	\$ (3,941) \$	2,130,656	, ,	2,130,656
Other (income) - Net	(78'086)	78,086	•	,	•		t
Total Other (Income) & Deductions	\$ 1,945,852	\$ 188,745	\$ 2,134,597	\$ (3,941) \$	2,130,656 \$	69	2,130,656

 $\begin{array}{c} \text{Line} \\ \text{Line} \\ \text{Soliton} \\ \text{Line}

Onereting Developed							
Onerating Devices	Test Year Ended	Pro Forma Adjustments -	Adjusted Test Year -	Rebuttal	Adjusted	Required Increase -	Adjstď w/
	12/31/2010	As Filed		욉	Rebuttal	Rebuttal	Rebuttal
Residential	\$ 12,125,017	_	\$ 11,436,591 \$	•	-		
Industrial	2,007,171	(25,256) (25,256)	2,606,553 70,149		2,505,553 70,149		
Private Fire Service	25,951	25,248	51,199	•	51,199		
Office Water Revenues	\$ 15,324,127	\$ (993,417)	\$ 14,330,710 \$		166,218 14,330,710		
Miscellaneous Total Operation Revenues	783,728	(58,271)	725,456			000	6
		(600,100,1)		,	991,950,51	5,927,383	18,983,549
Operating Expenses Source of Supply Expenses:							
Purchased Water	691,466	,	691,466	٠	691,466	•	691,466
Other Dimping Expanses:	68,687	4,808	73,495	(454)	73,041	ı	73,041
Purchased Power	1,402,065	22.774	1 424 839	208	1 425 047	,	1 425 047
Purchased Gas	•	,	,	} '		•	1
Other	511,114	42,358	553,472	(5,867)	547,605	•	547,605
Water Treatment Expenses	563,641	33,660	597,301	(695)	596,732	•	596,732
Transmission & Distribution Expenses	1,293,729	448,640	1,742,369	(14,469)	1,727,900	·	1,727,900
Customer Accounting Expenses	1,127,386	54,809	1,182,195	(13,469)	1,168,726	r	1,168,726
Sales Expense Administrative & General Expenses	1 828 249	- 262 108	2 090 357	(21 649)	2 068 708		2 068 708
Total Operations & Maintenance Expense	\$ 7,486,337		\$ 8,355,495 \$	(56,269) \$	1.	\$	\$ 8,299,226
Depreciation & Amortization Expenses	2,485,880	186,835	2,672,715	(1,019)	2,671,695	ı	2,671,695
Taxes							
Federal Income Taxes	777,203	(328,690)	448,513	(12,123)	436,390	1,218,953	1,655,343
State Income Taxes	87,797	11,006	98,803	(2,671)	96,133	268,524	364,657
Property laxes	695,522	51,742	747,264	100,384	847,648	73,703	921,351
Total Taxes	\$ 3,056,477	_	\$ 1,465,065 \$	85,591 \$	1,550,656	\$ 1,561,180	\$ 3,111,837
Total Operating Expenses Operating Income	\$ 13,028,694 \$ 3,079,161	\$ (535,419) \$ (516,269)	\$ 12,493,275 \$ \$ 2,562,892 \$	28,303 \$ (28,303) \$	12,521,578 \$ 2,534,589 \$	\$ 1,561,180 \$ 2,366,203	\$ 14,082,758 \$ 4,900,792
Other Income & Deductions:							
Long-Term Debt	1,654,064	38,185	1,692,249	(4,771)	1,687,478	•	1,687,478
Other	38,130	(38,130)	• •		ı i	•	
Total Interest	\$ 1,590,141		\$ 1,692,249 \$	(4,771) \$	1,687,478 \$,	\$ 1,687,478
Other (Income) - Net	(56,125)	56,125	•	ı	1	•	
Total Other (Income) & Deductions	\$ 1,534,016	\$ 158,233	\$ 1,692,249 \$	(4,771) \$	1,687,478 \$,	\$ 1,687,478
Net Income	\$ 1,545,145	\$ (674,503)	\$ 870,642 \$	(23,532) \$	847,110 \$	2,366,203	\$ 3,213,313

Comment Comm			€	<u>s</u>	<u> </u>	<u>[</u>	Ī		Ξ	<u>5</u>
Second Companies Second Comp	Commence of contraction	<u> </u>	Test Year Ended <u>2/31/2010</u>	Pro Forma Adjustments - <u>As Filed</u>	Adjusted Test Year - <u>As Filed</u>	Rebuttal <u>Adjustments</u>	Adjusted Test Year Rebuttal	т <u>с</u> п	tequired crease - tebuttal	Adjstd' w/ Increase - <u>Rebuttal</u>
State Colored State Colo	Operaning Revenues Residential Commercial Industrial Private Fire Service Other Water Revenues			(170,018) (43,055) 361 8,020 (15,034) (219,726)	2 8	1	2,2,186 86 3,26	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		
70 Expenses: 22.134	Miscellaneous Total Operating Revenues	€	- 1	(4,037)		· · ·	8,	- 1		\$ 4,008,556
Vuctiosed Power Units and Case (1566) 448,281 3,104 451,386 451,486 452,486	Operating Expenses Source of Supply Expenses: Purchased Water Other		32,134	4,705	36,839	. (429)	36,41	9		36,410
1,000 1,101 1,102 1,101 1,102 1,10	Purchased Power		445,426	2,855	448,281	3,104	451,36	35	ı	451,385
and Amortization Expenses 87,444 (12,280) 75,164 (501) 74,653 semission & Distribution Expenses 32,115 165,671 74,653 553,189 76,269 553,189 contact Accounting Expenses 32,2102 71,125 573,227 (3,533) 569,694 52,721 attactive actions & Maintenance Expenses 1,879,679 279,049 2,156,727 4,720 5,732 2,19,826 in & Amortization Expenses 1,879,679 279,049 2,156,727 4,720 5,732 2,19,826 anal Income Taxes 15,289 (33,277) 52,012 4,720 56,732 2,19,826 and Income Taxes 15,289 (3,3277) 52,012 4,720 56,732 2,19,826 and Income Taxes 15,289 (3,10,479) 57,586 3,079 141,051 10,034 and Income Taxes 15,289 (3,10,479) 5,7586 3,079 141,051 10,034 and Special Expenses \$ 2,591,320 (1,4850) 2,148,913 3,079 4,975	Other		96,363	17.131	103,494	(1.635)	101.85	9 6		1,906 101,859
Section Common	Water Treatment Expenses Transmission & Distribution Expenses		87,444	(12,280)	75,164	(501)	74,66	<u>بر</u> و	,	74,663
## Sequence Sequence	Customer Accounting Expenses		323,274	32,397	355,671	(2,550)	352,72	2.3	1 1	352,721
and Face to the component of the compone	Administrative & General Expenses Total Operations & Maintenance Expense	€9	502,102 1,879,679	71,125	2		\$ 2,			569,694 \$ 2,147,527
Fig. 185,289 (83,277) 52,012 4,720 56,732 219,826 let norme Taxes 15,289 (83,277) 52,012 1,458 1,040 56,732 219,826 let norme Taxes 128,907 9,065 137,972 3,079 11,051 10,034 128,907 9,065 137,972 3,079 11,051 10,034 10,034 11,051 10,034 11,051 10,034 11,051 10,034 11,051 10,034 11,051 10,034 11,051 10,034 11,051 10,034 11,051 10,034 11,051 10,034 11,051 10,034 11,051 10,034 11,051 11,	Depreciation & Amortization Expenses		464,098	34,618	498,716	(2,613)	496,10	23	ı	496,103
135,289	Taxes									
Fig. 128,907 9,065 137,972 3,079 141,051 10,034 388,064 (310,479) 57,585 -	rederal Income Laxes State Income Taxes		135,289 15,283	(83,277) (3,825)	52,012 11,458	4,720 1,040	56,73 12,49	% % %	219,826 48,426	276,558 60,923
\$ 647.543 \$ (388.516) \$ 259,027 \$ 8,839 \$ 267,865 \$ 278,286 \$ and the come and the come are already as a second and the composition of the composi	Property Taxes Other		128,907	9,065	137,972	3,079	141,05	7.	10,034	151,085
#ting Expenses \$ 2.991,320 \$ (74,850) \$ 2.916,470 \$ (4,975) \$ 2,911,495 \$ 278,286 \$ 3 3 5 2 1 4 6 5 5 5 5 5 6 2 2 5 5 5 6 5 5 5 5 6 5 5 5 5	Total Taxes	€9		(388,516)				1	1	LO .
The & Deductions: 287,186 (1,071) 286,114 (4,188) 281,927 -1-ferm Debt (6,820) -	Total Operating Expenses Operating Income	∞ ∞	1 1 1	(74,850) (148,913)			1 1 11	1 1 11	1 1 11	\$ 3,189,781 \$ 818,775
t-Term Debt 6,620 (6,620)	Other Income & Deductions: Interest: Long-Term Debt		287,186	(1.071)	286.114	(4.188)	281.92	<u>.</u> .	,	281.927
terest \$ 276,087 \$ 10,027 \$ 286,114 \$ (4,188) \$ 281,927 \$ - \$ ncome) - Net (14,085) 14,085	Short-Term Debt Other		6,620	(6,620)	1 1					•
(Income) & Deductions	Total Interest	69	1	10,027			€9	ĺ		\$ 281,927
(Income) & Deductions \$ 262,002 \$ 24,113 \$ 286,114 \$ (4,188) \$ 281,927 \$ - \$ \$ \$ 273,991 \$ (173,026) \$ 100,965 \$ 9,162 \$ 110,127 \$ 426,721 \$	Other (Income) - Net		(14,085)	14,085	•	1	1			•
\$ 273,991 \$ (173,026) \$ 100,965 \$ 9,162 \$ 110,127 \$ 426,721 \$		69	1	24,113			69	1		\$ 281,927
	Net Income	69		(173,026)				1 11	1 1	\$ 536,848

ARIZONA WATER COMPANY Test Year Ended December 31, 2010 Adjusted Test Year Income Statement

Operating Revenues Residential Commercial Industrial Private Fire Service	ř				Ī	Ţ	-	5
Operating Revenues Residential Commercial Industrial Private Fire Service	_ [12]	Test Year Ended 12/31/2010	Pro Forma Adjustments - <u>As Filed</u>	Adjusted Test Year - As Filed	Rebuttaí Adjustments	Adjusted Test Year - Rebuttal	Required Increase - Rebuttal	Adjstď w/ Increase - Rebuttal
Private Fire Service	€9	787,294 162,422	\$ (23,484) (2,958)	10 \$	↔			
		146	141	287		287		
Other Water Revenues Total Water Revenues	€>	10,018 959,880	(1,379)	8,639	, ,	932		
Miscellaneous		16,436	(1,108)	15,328				
Total Operating Revenues	₩		\$ (28,788) \$	947,528 \$	٠	6	276,037	\$ 1,223,565
Operating Expenses Source of Supply Expenses:								
Purchased Water Other		174,051	198,916	372,967	(82,364)	290,603	,	290,603
Pumping Expenses:		5	(600)	7,637	(48)	7,589	•	2,589
Purchased Power Purchased Gas		32,531	1,525	34,056	82	34,138	4	34,138
Other		43,866	5,341	49,207	9	49.213	. ,	49.213
Water Treatment Expenses		44,589	10,636	55,225	(9,587)	45,638	•	45,638
Transmission & Distribution Expenses		85,403	18,175	103,578	(1,315)	102,263	,	102,263
Sales Expense		66, 400	4,429	109,168	(1,492)	107,676	t	107,676
Administrative & General Expenses		118,718	15,542	134,260	(881)	133,379	' '	133.379
Total Operations & Maintenance Expense	€	607,403	\$ 253,695 \$		\$ (665'56)	765,499 \$		\$ 765,499
Depreciation & Amortization Expenses		75,433	37,505	112,938	18	112,956		112,956
Taxes								
Federal Income Taxes		33,794	(83,406)	(49.612)	29 941	(19 671)	85 801	66 131
State Income Taxes		3,818	(14,747)	(10,929)	965'9	(4,333)	18,901	14.5
Property Taxes		41,960	6,261	48,221	066	49,211	4,779	53,990
Total Taxes	64	159 597	(65,385)	14,635	e 100 10			
	,		(012,101)	2,310	¢ /2c'/c	39,643 \$	109,481	4 149,324
Total Operating Expenses	↔	842,428			1_	918,298 \$		
Uperating Income	€9	133,888 \$	(162,712)	(28,824) \$	58,054 \$	1 11	1 11	\$ 195,785
Other Income & Deductions: Interest:								
Long-Term Debt		72 638	(5.156)	67.481	(23)	27 414		5
		1,674	(1,674)	ē, '	(/0)	414/0		414,414
Other		(4,482)	4,482	•	•	. ,	٠,	, ,
Total Interest	69	\$ 088'69		67,481 \$	\$ (29)	67,414 \$,	\$ 67,414
Other (Income) - Net		(3,213)	3,213	•	•	,	•	•
Total Other (Income) & Deductions	€9	66,618 \$	864 \$	67,481 \$	\$ (29)	67,414 \$		\$ 67,414
Net Income	€	67,270 \$	(163,575) \$	(96,305) \$	58.121 \$	(38.184) \$	166 555 \$	128 371

	-	Test Year	Dro Corres	A 413					
Operating Beyonder	121	C)	,	Adjusted Test Year - <u>As Filed</u>	Rebuttai Adjustments	Adjusted Test Year Rebuttal	_	Required Increase - <u>Rebuttal</u>	Adjstd' w/ Increase - Rebuttal
Operating Neverines Residential Commercial	€9	885,183 \$ 178,838	; (84,129) \$ (22,401)	801,054 156,437	, , 69	\$ 80	801,054 156,437		
Private Fire Service Other Water Revenues			138 (1,214)	İ			283 19,841		
Miscellaneous	Ð	1,085,220 \$		977,615	, ,	\$ 97	977,615		
Total Operating Revenues	€9	1,098,566 \$	(108,457) \$	l_	- \$	66 \$	990,109 \$	130,819 \$	1,120,928
Operating Expenses Source of Supply Expenses: Purchased Warler		,							
Other		4,996	207	5,203	(20)		5,153	1 (5,153
Fumping Expenses: Purchased Power		107.256	(102)	107 154	100	Ç	25C 701		407 268
Purchased Gas		} '	(701)	<u>t</u>	70,	2	907		007'101
Other		34,254	5,142	39,396	(88)	ñ	39,308		39,308
Water Treatment Expenses Transmission & Distribution Expenses		21,005	(3,997)	17,008	(89)	÷ ;	16,940	ı	16,940
Customer Accounting Expenses		94,494 99,824	33,239	127,733	(1,374)	2 5	126,359	1 1	126,359
Sales Expense			-	200	(200)	2) -	, ,	104,400
Administrative & General Expenses Total Operations & Maintenance Expense	6	- 1	15,763	- 1	(1,061)		- [1	146,136
ord operations a manner and expense	9	493,203	53,476 \$	546,739	(3,189)	\$ 54.	543,550 \$	(γ)	543,550
Depreciation & Amortization Expenses		167,307	9,502	176,809	346	17	177,155		177,155
Taxes									
Federal Income Taxes		60,149	(18,578)	41,571	(361)	4	41,210	40,782	81,992
Property Taxes		43,951	2,363 (4,156)	9,158 39,795	3,053	, 4	9,078 42,848	8,984 1,887	18,062
Other	i	88,800	(76,112)	12,688)	: ;	12,688	-	12.688
Total Taxes	es.	199,695 \$		103,211 \$	2,613	\$ 100	105,824 \$	51,654 \$	157,477
Total Operating Expenses	€	860,265 \$	(33,505)	1	(230)		- 1	- {	878.183
Operating Income	€9	II		163,349 \$	230	\$ 163	163,579 \$	79,166 \$	242,745
Other Income & Deductions:									
Long-Term Debt		83 662	(1,009)	80.653	00	à	703 60		404 60
Short-Term Debt		1,929	(1,929)		- - -	ó	÷00.'		400,00
Other		اہ	- 1		İ		,		•
oda inerest	₩	80,429 \$	2,225 \$	82,653 \$	931	&	83,584 \$	69	83,584
Other (Income) - Net		(3,996)	3,996	,	1			1	•
Total Other (Income) & Deductions	69	76,432 \$	6,221 \$	82,653 \$	931	\$ 83	83,584 \$	1	83,584
Net income	€	161,869 \$	(81,173) \$	\$ 969'08	\$ (002)		\$ 966'62	79,166 \$	159,161

ARIZONA WATER COMPANY Test Year Ended December 31, 2010 Adjusted Test Year Income Statement

Rebuttal Test Year		
S 37,169 S 7,956 S 45,127 S Tes Service	- Rebuttal A <u>diustments</u>	Adjusted Required Adjista'w/ Test Year Increase Increase - Rebuttal Rebuttal Rebuttal
Fig. Fig.	45,127 \$ - 61,277	
## Severified State	85 9032	85 0.032
1,703	115,521 \$	115,521
Avater 204 42 246 Denses: 103,754 103,754 d Power 103,754 103,754 d Power 103,754 168 d Power 103,754 17,703 d Power 103,754 18 d Power 103,754 18 d Power 103,754 18 d Power 119 753 counting Expenses 119 17,703 scounting Expenses 17,49 2,772 scounting Expenses 12,452 2,004 scounting Expenses 124,528 2,332 scounting Expenses 124,528 23,328 10,107 ne Taxes 12,653 (1,789) (38,543) (1,226) net Taxes 12,0654 (1,789) (38,543) (1,226) scounting Expenses 80,591 8,035 (1,468) 8,428 2,071 es 60,591 8,035 (1,468) (1,789) 1,789 1,789 es 190,167 5,224 196,091 1,704) 5 enteres 5,934 1,683 1,789 1,789 1,789 ebt (294) (1,348) (4,169) 1,789 1,789	1,582	1,582
103,754		
A Control of Casa Services Ser	246	
To disperse the following Expenses		. 047
1.2.71 15,432 17,703 18 1.8 Deductions 6,098 2,772 7,190 (20) scounting Expenses 6,098 2,004 8,102 (8) se & General Expenses 7,149 2,958 10,107 (77) Maintenance Expenses 7,149 2,958 10,107 (77) Maintenance Expenses 7,149 2,958 10,107 (77) Maintenance Expenses 80,591 8,837 89,428 2 ne Taxes (2,054) (17,889) (38,543) (1,226) s Taxes (2,054) (17,889) (38,543) (1,226) s (14,952) (2,158) (4,169) (1,704) ses \$ (14,952) (26,240) (1,704) \$ enses \$ (16,826) 2,837 (1,789) (1,704) s (16,826) 2,837 (4,169) 4,169 ebt (89) (1,349) 4,169 ebt (2,935) (1,235) (4,169) 4,169 ebt (89) (4,169) 4,169 4,169 s (2,837) (1,348) (4,169) 4,169 s (2,94) (2,941) (1,348) 4,169 s (2,94) <td>103,754</td> <td>103,754 - 103,754</td>	103,754	103,754 - 103,754
Taxes	•	
Counting Expenses 4,418 2,772 7,190 (20) Counting Expenses 6,098 2,004 8,102 (8) See Repenses 7,149 2,958 10,107 (77) Maintenance Expense \$ 124,528 23,328 \$ 147,856 \$ (87) \$ Maintenance Expenses 8 0,591 8,837 89,428 2 2 Antization Expenses 80,591 8,837 89,428 2 2 Taxes (2,0654) (17,889) (38,543) (1,226) 2 Taxes (2,333) (6,158) (8,491) (270) 2 es 8,035 (7,689) (41,192) (1,704) \$ enses \$ (14,952) (26,240) (41,192) (1,704) \$ enses \$ (18,26) 2 (26,240) (41,192) 4,169 \$ ebt (2,935) (1,235) (4,169) 4,169 \$ ebt (2,821) (1,348) (4,169) 4,1	•	753 - 753
se Caneral Expenses 7,149 2,958 10,107 (77) Maintenance Expense \$ 124,528 \$ 23,328 \$ 147,856 \$ (87) \$ Antization Expenses 80,591 8,837 89,428 2 2 Antization Expenses 80,591 8,837 89,428 2 2 Antization Expenses 80,591 (1,789) (38,543) (1,226) (270) Book State S		7,170
## General Expenses		
Antization Expenses 80,591 8,837 89,428 2,3328 8,147,856 8,837 89,428 2 Taxes (20,654) (17,889) (38,543) (1,226) (2,70) 8,035 (1,748) (3,159) (4,169) 8,1789 (1,789) (1,789	10,107	10,030 - 10,030
Profitation Expenses 80,591 8,837 89,428 2 The Taxes (20,654) (17,889) (38,543) (1,226) Faxes (2,333) (6,158) (8,491) (270) Es (2,333) (6,158) (8,491) (270) Es (2,333) (6,158) (8,491) (270) Es (1,768) (2,705) (207) Enses \$ (14,952) (1,768) (1,704) Enses \$ (19,0167 \$ (1,768) (1,789) (1,789) Ent (2,935) (1,235) (4,169) 4,169 Ent (68) 68 (1,181) (1,181) (1,169) Net (2,821) (1,348) (4,169) 4,169 4,169 R (2,821) (1,054) (1,054) (4,169) 4,169	147,856 \$ (87)	147,769 \$ - \$ 147,769
Taxes (20,654) (17,889) (38,543) (1,226) (1,226) (1,3x85 (2,333) (6,158) (8,491) (2,70) (2,70) (6,158) (8,491) (2,70) (2,70) (7,468) (7,468) (8,491) (2,07) (1,704) \$ (14,962) \$ (14,962) \$ (1,768) \$ (1,704) \$ (1,704) \$ (1,100)		89,429 - 89,429
Taxes (20,654) (17,889) (38,543) (1,226) (1,226) (2,333) (6,158) (8,491) (270) (270) (2,333) (6,158) (8,491) (270) (270) (2,333) (6,158) (8,491) (270) (270) (2,275) (2,275) (2,275) (2,275) (2,275) (2,275) (2,276) (2,275) (2,276) (
es (270) es	(1,226)	39,770) 39,770
## (14,952) \$ (7,468)	(270)	8,761
## (14,952) \$ (26,240) \$ (41,192) \$ (1,704) \$ ## 190,167 \$ 5,924 \$ 196,091 \$ (1,789) \$ 1 ## (18,1826) \$ 2,837 \$ (78,989) \$ 1,789 \$ 1 ## (18,181)	(201)	567 - 6,908
## 190,167 \$ 5,924 \$ 196,091 \$ (1,789) \$ 194 \$ (81,826) \$ 2,837 \$ (78,989) \$ 1,789 \$ (77,89) \$ 194 Functions: ### 120,167 \$ 5,924 \$ 196,091 \$ (1,789) \$ 194 ### 1789 \$ (78,989) \$ 1,789 \$ (78,989) \$ (78,989) \$ (78,989) \$ (7,89	\$ (1,704)	(42,895) \$ 50,371 \$ 7,475
# (61,626) \$ 2,837 \$ (76,989) \$ 1,789 \$ (77 Inctions: but (2,935) (1,235) (4,169) 4,169 but (68) 68 68 181 (181) \$ (2,821) \$ (1,348) \$ (4,169) \$ 4,169 \$ Net (294) 294 * Deductions \$ (3,115) \$ (1,054) \$ (4,169) \$ 4,169 \$	\$ (1,789) \$	\$ 50.371
tuctions: ebt (2,935) (1,235) (4,169) 4,169 ebt (68) 68 181 (181) \$ (2,821) \$ (1,348) \$ (4,169) \$ 4,169 \$ Net (294) 294 * Deductions \$ (3,115) \$ (1,054) \$ (4,169) \$ 4,160 \$	1,789 \$	\$ 77,200 \$
ebt (2,935) (1,235) (4,169) 4,169 ebt (68) 68		
ebt (68) 68 (7.72) 7.735 181 (181)		
\$ (2,821) \$ (4,169) \$ 4,169 \$ Net (294) 294		
Net (294) 294	4 160	6
8 Deductions \$ (3.115) \$ (1.054) \$ (4.160) \$ 4.160 \$? ?
& Deductions \$ (3,115) \$ (1,054) \$ (4,169) \$ 4,160 \$		
	(4,169) \$ 4,169 \$	es
Net Income \$ (78,711) \$ 3,891 \$ (74,819) \$ (2,380) \$ (77,200)	\$ (2,380) \$	(77,200) \$ 77,200 \$

ARIZONA WATER COMPANY Test Year Ended December 31, 2010 Adjusted Test Year Income Statement

			<u>₹</u>	(B)	[0]	Winkelman [D]	[E]	[F]	[6]
Line No.	Operating Revenues	- 1	Test Year Ended 12/31/2010	Pro Forma Adjustments - <u>As Filed</u>	Adjusted Test Year - <u>As Filed</u>	Rebuttal Adjustments	Adjusted Test Year - Rebuttal	Required Increase - Rebuttal	Adjstď w/ Increase - Rebuttal
0 m 4 m m	Residential Commercial Industrial Private Fire Service	⇔	53,799 46,764 3,046	\$ 443 (3,666) 43	\$ 54,242 43,098 3,089	· · · · ·	\$ 54,242 43,098 3,089		
o 1 - 80	Otter Water Revenues Total Water Revenues	89	103,609	\$ (3,180)	\$ 100,429	Ф	\$ 100,429		
6 2 1	Miscellaneous Total Operating Revenues	4	1,809	(140)	1,669	69	1,669	\$ 31855	133 053
5 6 4	Operating Expenses Source of Supply Expenses:								
5 9	Other Pumping Expenses:		372	16	388	, (5)	383	, ,	383
17	Purchased Power Purchased Gas		6,511	270	6,781	4	6,822	,	6,822
19	Other		3,659	449	4.108	, 6	4 101		, 7
2 20	Water Treatment Expenses Transmission & Distribution Expenses		8,215	(854)	7,361	33	7,354		7,354
22	Customer Accounting Expenses		10,444	6,052 229	16,617 10,673	(144)	16,473		16,473
	Sales Expense Administrative & General Expenses		13 240					•	2,0,0
	Total Operations & Maintenance Expense	69	1	7,681	\$ 60,687	\$ (252)	14,674	9	14,674
27 28	Depreciation & Amortization Expenses		27,358	(7,063)	20,295	. 2	20,297		
30	Taxes Federal Income Taxes		1 613	200	;				
31	State income Taxes		182	(1,168)	445 98	(171)	274	9,783	10,057
	Other		7,620 9,248	484	8,104	806	8,910	927	9,837
	l otal Taxes	₩	1		\$ 9,986	\$ 597	\$ 10,583	\$ 12,865 \$	23,448
	Total Operating Expenses Operating Income	မ	99,027 6,391	\$ (8,060)	\$ 90,967	\$ 347 \$ (347)	\$ 91,315	\$ 12,865 \$	104,179
39 C	Other Income & Deductions:								
4 5	-Term		10,684	(417)	10.268	(16)	10.252	,	10.252
43	Other		246	(246)				•	202,01
4 4 5	Total Interest	69	10,271 \$	(4)	\$ 10,268	\$ (16)	\$ 10,252	\$	10,252
	Other (Income) - Net		(372)	372	•	٠	•		. •
	Total Other (Income) & Deductions	67	\$ 668'6	368 \$	10,268	\$ (16)	\$ 10,252	\$	10,252
	Net Income	€	\$ (805'E)	4,371 \$	863	\$ (332)	\$ 532	\$ 18,990 \$	19,522
52 54 54									
55									

End of A	Adjustments - As Filed	Dalehin				<u>.</u>	7.5	Ξ	3	Ξ
\$ 16.329,000 \$ 4,240,936 101,432 enues 34,961 353,544 \$ 21,059,873 \$ 863,935 \$ 21,923,809 \$	As Filed	Test Year -	Rebuttal	Rebuttal	Rebuttal	al Income State	Rebuttal Income Statement Adjustments Rebuttal	Dobutto	400	
\$ 16,329,000 \$ 4,240,936 101,432 enues 34,961 353,544 \$ 21,059,873 \$ 863,935 \$ 21,923,809 \$		As Filed	Adi. 1S-1	01	Adj. IS-3	Adi. IS-4	Adj. IS-5		BLANK	Kebuttal
4.240,936 101,432 34,961 361,544 353,544 863,935 \$ 21,923,809 \$	\$ (959,756)		69	,	65		6			
ce 34,952 enues 353,544 es 21,059,873 \$ 863,935 \$ 21,923,809 \$	(351,035)	3,889,900	,	,	,	,	, ,	, ,	•	A
ss 353,544 \$ 21,059,873 \$ 863,935 \$ 21,923,809 \$	(24,853) 33,541	76,580	1	•	,	,	,	1	•	
\$ 21,059,873 \$ 863,935 \$ 21,923,809 \$	(42.723)	310,821	,		,	•	•	1	•	
863,935 \$ 21,923,809 \$	(1,342,726) \$	19		1	,					
\$ 21,923,809 \$			•				/)	,	·	69
	(1 407 255)	799,406	,				,	٠	•	
Oberating Expenses	(007,104,1)			•	\$}	\$	•	,	г сэ	€9
Source of Supply Expenses:										
Purchased Water 865.517	198 916	1 064 433								
	8,910	118,809	(986)		•		(82,364)	ı	1	
Pumping Expenses:			(222)		r		•	1	•	
2,0	27,322	2,124,865	3,537		,	,	,	,	•	
000,1 Other	, 0	1,606	1		,	,				
eatment Expenses	02,033	750,380	(7,573)	1 :	,	1	,	,	1	
enses 1.	671 993	7 561 032	(1,222)	(9,510)	,	,	,		•	
unting Expenses	97.095	1 768 860	(22,5/8)	,	,	•	1	•	•	
	}	,	(010,01)		•			•	•	
-	369,013	2,969,905	(10,032)	,	(6.850)	(10.402)	•	ı	•	
oral Operations & Maintenance Expense \$ 10,644,216 \$	1,486,386 \$	ĺ	(57,470) \$	(9,510) \$	\$ (0;8;9)	(10,402) \$	(82,364) \$		69	€
Depreciation & Amortization Expenses 3,300,667	270,232	3,570,899	1	,	,					
Taxes						1		•	•	
Federal Income Taxes	(533,000)	7								
axes	(11,445)	100.007	•			i	1	å	Î	
rty Taxes	68.671	986.631		•	,	,	1	•	•	
2,050,122	(1,792,822)	257,300				1			٠	
otal laxes \$ 4,067,018 \$	(2,268,605) \$	1,798,413 \$	69	\$	9	· ·	. 6	•		6
18 011 001	(E11 00C) #	- 1		- 1	ł		•			9
Operating Income \$ 3,911,908 \$	(895,269) \$	3,016,638 \$	57,470 \$	9,510 \$	(6,850) \$	(10,402) \$	(82,364) \$		٠ د	₩.
Other Income & Deductions:			li .	II .	lí	11	5		9	0
Interest:										
2,2	29,297	2,134,597	,	,	,	,				
Other	(48,532)		,	1	•		١ ١			
Total Interest \$ 2,023,938, c	129,894	- 1		•		•	,	1	•	
000,010,12		2,134,597	·	69 ,	⇔	₩.	\$,	€9	\$
Other (Income) - Net (78,086)	78,086	•			•	•	,	,	•	
Total Other (Income) & Deductions	188 745 e	ı								
700'010'		2,134,597 \$	()	⇔	69 '	69	\$		\$	69
Net Income \$ 1,966,056 \$ (\$ (1,084,014) \$	882,042 \$	57,470 \$	9,510 \$	6,850 \$	10,402 \$	82,364 \$			65

Total Adjusted Redutted Adjusted Adjusted Adjusted Rebuttal Test Year Increase Incre			[-]	[W]	1	Ξ		<u>[</u>	₽		[<u>o</u>		R	S	Ε	52	2
Bi-Alix Bi-Alix Bi-Alix Bi-Alix Bi-Alix Bi-Alix Bi-Alix Bi-Alix Bi-Alix Aditional Freedomial Feet Versions Feet Freedomial Freedomia		ReA	Suffe	G Had	100	Rebutta	Income	Statement A	Adjustments					Total	Adjusted	Required	Adjstď w/
March Marc		됩	ANK	BLA	員到	BLANK	r (d	di. IS-6	Rebutts Adj. IS-		Rebuttal Adj. IS-8	Ret Adj.		Rebuttal Adjustments	Test Year - Rebuttai	Increase - Rebuttal	Increase - Rebuttal
Authorities Comparison Co	Speraling Revenues Residential	€9		67	1	,,	4	,	e	6		6	•				
Comparison Com	Commercial		•		,	•	•		•)		9	, ,		_		
The Properties The	Industrial Drivate Eira Socias		r		•	•		٠			•			ı	76,580		
Water Revenues \$ \$ \$ \$ \$ \$ \$ \$ \$	Other Water Revenues				1 1	1		•			٠			•	68,502		
Page Page	Total Water Revenues	69		€>					69			69	\$				
19 December 19 Decembe	Miscellaneous				,	•		,			,				307 302		
Percentage of Signoyi Expenses thermal Expenses includated Case thermal Expenses includated Case inclu	Total Operating Revenues	€>		8			69		69	69	· '	69		, .		5,198,671	
The Debt of Personal Property	Operating Expenses																
Page Page	Source of Supply Expenses: Purchased Water																
Company Comp	Other					•					1			(82,364)	982,069		982,069
Transment Expenses Transment Exp	Pumping Expenses:					•		•			ı			(986)	117,823		117,823
Tribulation Per Per Per Per Per Per Per Per Per Per	Purchased Power		•		1	•		1		1			,	3 537	2 128 402		2 128 402
Treatment Expenses Treatment Exp	Purchased Gas		ı		,	•		•			•		,	,	1.606		1, 123, 102
Figure F	Other		,			•		1			t			(7,573)	759,807		759,807
Second Control Contr	Voter I reatment Expenses		1			•		1		,	1			(10,732)	742,080		742,080
Expense Expenses	Transmission & Distribution Expenses		•			•					•			(22,578)	2,539,354		2,539,354
Indicative & General Expenses \$. \$. \$. \$. \$. \$. \$. \$. \$. \$	Sales Expense					1		•		ı	•		,	(18,616)	1,750,244		1,750,244
altinome & Maintenance Expense \$. \$. \$. \$. \$. \$. \$ (15,556) \$ 11,594,006 \$. \$. \$. \$ (16,556) \$ 11,594,006 \$. \$. \$. \$ (10,516) \$ 1,514,915 \$. \$. \$. \$. \$. \$. \$. \$. \$. \$	Administrative & General Expenses		1			٠ ،		, ,	•				4 1	. (ARC 7C)	2042624		,
In & Amorization Expenses In Amorization Expenses Income Taxes Income	Total Operations & Maintenance Expense	€9		€>	1	-	69		\$	69	,	49	69	1		-	
ral Income Taxes I	Depreciation & Amortization Expenses		•		,	'		(3,265)	•		1		,	(3.265)	3 567 635		3 567 635
Tall income Taxes Income Taxes	Taxes													(0,500)	200		000,000,0
Income Taxes Incom	Federal Income Taxes		1		,	•			•			•	707	787	175 165		0000
#thy Taxes	State Income Taxes		1					, ,	•	. ,			20,700 4.578	4.578	475,165 104,675	355 751	2,090,087
## Special Section (Income) & Deductions Special Section Speci	Property Taxes Other					ı		ı	•		108,105			108,105	1,094,736	93,169	1,187,906
titing Expenses \$ \$ - \$ - \$ - \$ 108,105 \$ 25,358 \$ (36,397) \$ 17,463,517 \$ 2,063,836 \$ 5 108,105 \$ 108,105 \$ 25,358 \$ (36,397) \$ 17,463,517 \$ 2,063,836 \$ 5 134,835 \$ 8	Total Taxes	8	F 1	49				i			108 105		- 1	- i	257,300	- 200 000 0	
## Charles	Total Oscaritation Constitution							- 1	,	•	201, 200				0/0'106'1	2,003,030	
Term Debt	Operating Income	ю ю	· .	es es			မှာ မှာ	1 (1			(108,105)	& &	1 1		17,463,517 3,053,036	2,063,836 3,134,835	
Term Debt	Other Income & Deductions:																
Term Debt (1,541) & (3,941	Long-Term Debt		•			,		,	6	41)				(3 941)	2 130 656		2 120 656
lerest \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	Short-Term Debt		,		,	•			· (2)	ì				(=+6'6)	2,130,636		2,130,636
Toome) - Net	Other Total Interest	6		6	.			'		- 1	-			i i	t		
Income) & Deductions \$ - \$ - \$ (3,941) \$ - \$ (3,941) \$ - \$ (3,941) \$ - \$ - \$ (3,941) \$ - \$ - \$ (3,941) \$ - \$ - \$ (3,941) \$ - \$ - \$ (3,941) \$ - \$ - \$ (3,941) \$ - \$ - \$ (3,941) \$ - \$ - \$ (3,941) \$ - \$ - \$ (3,941) \$	100 1012	9		p	•		69				1	ss	69 '		2,130,656		
(Income) & Deductions \$ - \$ - \$ - \$ (3,941) \$ - \$ - \$ - \$ (3,941) \$ 2,130,656 \$ - \$ 5 (3,941) \$ 2,130,656 \$ - \$ 5 (3,941) \$ 2,130,656 \$ - \$ 5 (3,941) \$ 2,130,656 \$ - \$ 5 (3,941) \$ 2,130,656 \$ - \$ 6	Other (Income) - Net					1		•	,		1		,		•		,
\$ - \$ - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 -	Total Other (Income) & Deductions	€		69			69				1	€9	69		2,130,656		
	Net Income	69	-	69	65		64			- 1	(408 40E)	6		- 1	000 000	0 404 000	1

ARIZONA WATER COMPANY Test Year Ended December 31, 2010 Income Statement Pro Forma Adjustments

Purchased Water Teatment Expenses Purchased Gas	\$ 11,436,591 2,606,553 70,149 51,199 166,218 \$ 14,330,710 \$ 725,456 \$ 15,056,166 \$ 1,424,839 1,424,839 553,472 897,301 1,742,369 1,182,195 1,182,195 1,182,195 8,335,495 \$	Rebuttal Rebuttal Adi. IS-2 - \$	\$ 5 4di. 15-3	Rebuttal Adi, 15-4		BLANK - \$	BLANK \$	Rebuttal BLANK
\$ 12,125,017 \$ 2,887,171 95,404 95,404 190,584 \$ 15,324,177 \$ 783,728 \$ 16,107,855 \$ (1) 1,402,065 68,687 1,144 563,641 1,127,386 1,127,386 1,127,386 1,127,386 1,127,386 1,127,386 1,127,386 1,289,729 1,127,386 1,127,386 1,127,386 1,127,386 1,127,386 1,127,386 1,127,386 1,127,386 1,127,386 1,127,386 1,127,386 1,127,386 1,127,386 1,127,386 1,127,386 1,127,386	\$ 11,436,591 2,606,553 70,149 51,199 166,218 \$ 14,330,710 725,456 \$ 15,056,166 73,495 1,424,839 553,472 597,301 1,742,369 1,182,195 1,182,195 1,182,195 8,355,495 8,355,495 8,355,495	49 49 69			φ φ	69 69		
\$ 15,324,177 \$ 25,954 25,954 \$ 15,324,127 \$ 783,728 \$ 16,107,855 \$ (1) 1,402,065 691,466 681,466 683,641 511,114 563,641 1,127,386 1,127,386 1,127,386 1,127,386 1,288,729 1,288,729 1,288,729 1,288,729 1,288,729 1,288,729 1,288,729 1,288,729 1,288,729 1,288,729 1,288,729 1,288,729 1,288,729 1,288,729 1,288,729	2, 560, 553 70,149 51,189 166,218 14,330,710 725,456 691,466 73,495 1,424,839 553,472 553,472 553,472 57,301 1,742,369 1,182,195 1,182,1	69 69 69		, ,	φ , , , , , , , , , , , , , , , , , , ,			
25,951 190,564 \$ 15,324,127 \$ 783,728 \$ 16,107,855 \$ (1 691,466 68,687 1,402,065 511,114 563,641 1,127,386 1,127,386 1,127,386 1,127,386 1,127,386 1,127,386 2,485,880	\$ 14,330,710 \$ 14,330,710 725,456 \$ 15,056,166 73,495 1,424,839 553,472 587,301 1,742,369 1,182,195 1,182,195 8,355,495 \$ 8,355,495	v> v>			. ,			
\$ 15,324,127 \$ 783,728 \$ 16,107,855 \$ (1 1,402,065 68,687 1,402,065 511,114 563,641 1,127,386 1,127,386 1,127,386 1,228,249 1,828,249 2,485,880	\$ 14,330,710 725,456 \$ 15,056,166 681,466 73,495 1,424,839 553,472 597,301 1,742,369 1,182,195 1,182,195 2,090,357 \$ 8,355,495	₩ ₩ ₩			. , ,			
\$ 16,107,855 \$ 16,107,855 691,466 68,687 1,402,065 511,114 563,641 1,293,729 1,127,386 1,127,386 1,127,386 2,486,337 2,486,337	\$ 15,056,166 691,466 73,495 1,424,839 553,472 597,301 1,742,369 1,182,195 2,090,357 8 8,355,495	69			, ,			
\$ 16,107,855 691,466 68,687 1,402,065 511,114 563,641 1,127,386 1,127,386 1,127,386 1,127,386 1,282,49 ise \$ 7,486,337 2,485,880	\$ 15,056,166 681,466 73,495 1,424,839 553,472 597,301 1,742,369 1,182,195 2,090,357 8,355,495	49	, , , , , , , , , , , , , , , , , , ,	,				
691,466 68,687 1,402,065 511,114 563,641 3,729 1,293,729 1,127,386 5,1,828,249 5,85 1,828,249 26 26 27,486,380 18	691,466 73,495 1,424,839 553,472 597,301 1,742,369 1,182,195 2,090,357 \$ 8,355,495	(स	(A 850)	60 2	•			
68,687 1,402,065 211,114 4,563,641 3 1,293,729 44 1,127,386 5 1,828,249 1,86,337 1,86,367 1,8	73,495 1,424,839 553,472 597,301 1,742,369 1,182,195 2,090,357 \$ 8,355,495	 69	68.850	60				
1,402,065 - 511,114 563,641 1,293,729 1,127,386 1,127,386 1,127,386 1,828,249 2,485,880	1,424,839 553,472 597,301 1,742,369 1,182,195 2,090,357 \$ 8,355,495	 69	68.850	60				
511,114 563,641 1,293,729 1,127,386 1,127,386 1,128,249 1se \$ 7,486,337 \$ 8	553,472 597,301 1,742,369 1,182,195 2,090,357 \$ 8,355,495	<i></i>	(A 850)	(60)				
511,114 563,641 1,293,729 1,127,386 1,128,249 1,828,249 1,828,249 1,486,337 \$ 8	553,472 597,301 1,742,369 1,182,195 2,090,357 \$ 8,355,495	<i></i>	(8.850)	, , , , , , , , , , , , , , , , , , ,				
563,641 1,293,729 1,127,386 1,828,249 1,828,249 2,485,880	597,301 1,742,369 1,182,195 2,090,357 \$ 8,355,495	69	(6.850)	,				
1,259,129 1,127,386 1,1828,249 1,486,337 \$ 2,485,880	1,742,369 1,182,195 2,090,357 \$ 8,355,495	.	(6,850)	, , , , , , , , , , , , , , , , , , ,				
ses 1,828,249 Nse \$ 7,486,337 \$ 2,485,880	2,090,357	es.	(6.850)	, , , , , , , , , , , , , , , , , , ,				
ses 1,828,249 Nse \$ 7,486,337 \$ 2,485,880	2,090,357 \$ 8,355,495	v	(6.850)	(003.6)				
lse \$ 7,486,337 \$ 2,485,880	8,355,495	69						
2,485,880		•	\$ (6,850) \$	(7,522) \$	5	69	٠	
Taxes	2,672,715						•	
Federal Income Taxes (328,690)	4							
797,78	98,803							
Other (1.325.460)	747,264							
€\$	\$ 1,465,065 \$	\$	· ·	45	69	65		
Total Operating Expenses \$ 13,028,694 \$ (535,419)	₩	(41,897) \$			1		,	
\$ 3,079,161 \$	\$ 2,562,892		\$ 6,850 \$	7,522 \$	о 69	9 69	es es	
Other Income & Deductions:								
38 130	1,692,249							
2								
69	\$ 1,692,249 \$	65	69		6	6		
Other (Income) - Net 56,125				•	?	9		•
Total Other (Income) & Deductions								
9 010/100/1	\$ 1,692,249 \$	· 69	\$	69	69	5	65)	
Net Income \$ 1,545,145 \$ (674,503)	\$ 870,642 \$	41,897 \$	\$ 6.850 \$	7.522 \$,		6	

ARIZONA WATER COMPANY	Test Year Ended December 31, 2010	ncome Statement Pro Forma Adiustments
ARIZONA	Test Year End	Income Stater

	[-]	[W]	Rebutt	[N] [인] [P] Rebuttal Income Statement Adjustments	[O] tatement Adiu	(P.) ustments	<u>3</u>	₹	•	Total	[T] Adiusted	[U] Required	[V] Adistd' w/
Operating Bevening	Rebuttal BLANK	Rebuttal BLANK	Rebuttal BLANK	al Ret	Rebuttal Adj. IS-6	Rebuttal Adj. IS-7	Rebuttal Adj. IS-8	Rebuttal Adj. IS-9	1	Rebuttal Adjustments	Test Year - Rebuttal	Increase - Rebuttal	Increase Rebuttal
Commercial Industrial									₩	69 	11,436,591 2,606,553 70,149		
Private Fire Service Other Water Revenues Total Water Revenues	φ.	Ө	6	↔	φ.		69	es es	69		51,199 166,218 14,330,710		
Miscellaneous Total Operating Revenues	₩	₩	€9	69	6	1	€9	€9	G		725,456 15,056,166 \$	3,927,383 \$	18,983,549
Operating Expenses Source of Supply Expenses: Purchased Water Operating Expenses										. (454)	691,466 73,041		691,466 73,041
Purchased Power										208	1,425,047		1,425,047
Futchased Gas Other Other Water Treatment Expenses Transmission & Distribution Expenses Customer Accounting Expenses										, (5,867) (569) (14,469) (13,469)	547,605 596,732 1,727,900 1,168,726		547,605 596,732 1,727,900 1,168,726
Sales Expense 'Administrative & General Expenses Total Operations & Maintenance Expense	·	.	64	<i>↔</i>	()		€9	69	69	(21,649) (56,269) \$	2,068,708 8,299,226 \$	۱ .	2,068,708
Depreciation & Amortization Expenses					(1,019)					(1,019)	2,671,695		2,671,695
Taxes Federal Income Taxes State Income Taxes Property Taxes Other							100,384		(12,123) (2,671)	(12,123) (2,671) 100,384	436,390 96,133 847,648	1,218,953 268,524 73,703	1,655,343 364,657 921,351
Total Taxes	-	69	69	69	·		\$ 100,384	€9	(14,793) \$	85,591 \$	1,550,656 \$	1,561,180 \$	ε,
Total Operating Expenses Operating Income	, , es es	 ee ee	र ू स्त	6 69	(1,019) \$ 1,019 \$		\$ 100,384 \$ (100,384)	6 69	(14,793) \$ 14,793 \$	28,303 \$ (28,303) \$	12,521,578 \$ 2,534,589 \$	1,561,180 \$ 2,366,203 \$	14,082,758 4,900,792
Other Income & Deductions: Interest: Long-Term Debt Short-Term Debt						(4,771)				(4,771)	1,687,478		1,687,478
Total Interest Other (Income) - Net	69	С	φ.	€9	ε	(4,771)	· •	69	↔	(4,771) \$	1,687,478 \$	↔	1,687,478
Total Other (Income) & Deductions	· •	· •	€	69	67	(4,771)	СО	₩	69	(4,771) \$	1,687,478 \$	€	1,687,478
Net Income	69	, 65	69	69	1019	4,771	\$ (100,384)	€9	14,793 \$	(23,532) \$	847,110 \$	2,366,203 \$	3,213,313

		8	2	3	į	_	2		=		=		IK1
			Adjusted				Rebuttal Inc	Rebuttal Income Statement Adjustments	ent Adjustme		Ξ		Ξ
Oneration Bevenues	End of Test Year	Adjustments - As Filed	Test Year - As Filed	Rebuttal Adj. IS-1	Rebuttal Adj. IS-2	Rebuttal Adj. IS-3	Rebuttal Adj. IS-4	uttal 1	Rebuttal Adi. IS-5	Rebuttal BLANK	Rebuttal		Rebuttal
Residential Commercial	\$ 2,440,538 \$	\$ (170,018) \$	2,270,520										
Industrial Private Eire Service	2,981	361	3,342										
Other Water Revenues	0,827 122,126	8,020 (15,034)	16,647 107,091										
Total Water Revenues	\$ 3,480,398 \$	\$ (219,726) \$	6		69	\$	69	69	-	€9	8	€9	-
Miscellaneous	46,914	(4,037)	42,877										
	216,126,6	\$ (223,753) \$		1	, 69	· \$	↔	69	ı	•	69	69	
Operating Expenses Source of Supply Expenses: Purchased Water	,	,	,										
Other Dimping Expenses:	32,134	4,705	36,839	(429)									
Purchased Power	445.426	2 855	448 281	3 107									
Purchased Gas	1,606	}	1.606	<u>.</u>									
Other	86,363	17,131	103,494	(1,635)									
Water Treatment Expenses	87,444	(12,280)	75,164	(501)									
Customer Accounting Expenses	401,330 323,274	163,115 32,397	564,445 355,671	(5,256)									
Sales Expense	•	ļ ,	·))	(2001)									
Administrative & General Expenses Total Operations & Maintenance Expense	502,102	71,125	573,227	(1,739)				- 1					
Depreciation & Amortization Expenses	464,098	34.618	498 716	(9,406)	: A	·		(1,/94) \$	•	· **	и	⇔	1
Taxes		-											
Federal Income Taxes	135,289	(83,277)	52,012										
State Income Taxes Property Taxes	15,283	(3,825)	11,458										
Other		3,063 (310,479)	57,585										
Total Taxes	\$ 647,543 \$		259,027 \$	\$,	· &	es-	59		59	€	€	
Total Operating Expenses	\$ 2,991,320 \$	(74,850) \$	2,916,470 \$	6)		\$	\$	(1,794) \$		6	s	€9	
Other Income & Deductions:	11	(148,913)		9,406 \$		У	69	1,794 \$		Ю	₩	69	1
Interest:													
Long-Term Debt	287,186	(1,071)	286,114										
Other	6,620	(6,620)	•										
Total Interest	\$ 276,087 \$		286,114 \$	69		· 69	69	69	,	9	69	69	
Other (Income) - Net	(14,085)	14,085	•										
Total Other (Income) & Deductions	\$ 262,002 \$	24,113 \$	286,114 \$			69	\$	6		s	69	69	
	100 050	1000	- 1	- !				- 1					
	\$ 188'C/2	(1/3,026) \$	100,965 \$	9,406 \$	•	چ	69	1,794 \$	-	ا ج	₩.	\$	-

ARIZONA WATER COMPANY	Test Year Ended December 31, 2010	Income Statement Pro Forma Adjustment
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Properties Properties Probuties Pr			[Rebuttal Income	[U] [P] ime Statement Adjustments	ا۳] djustments	<u> </u>	Ÿ	[S] Total	[1] Adjusted	[U] Required	[V] Adistď w/
S - S - S - S - S - S - S - S - S - S -	Line <u>No.</u> 1 Operating Revenues	Rebuttal BLANK	Rebuttal BLANK	Rebuttal BLANK	Rebuttal Adj. IS-6	Rebuttal Adi. IS-7	Rebuttal Adj. IS-8	Rebuttal Adj. IS-9	Rebuttal Adjustments	Test Year - Rebuttal	Increase -	Increase -
\$. \$. \$. \$. \$. \$. \$. \$. \$. \$.	Residential Commercial Industrial Private Fire Service Other Water Revenues									8		
Series	Total Water Revenues	·	1	1		· •	, es	· ·		က်		
Figure 1	Miscellaneous Total Operating Revenues	•	,	•	٠		9	· ·	· ·	42,877	706,007	\$ 4,008,556
Personal Services Ser	Operating Expenses Source of Supply Expenses: Purchased Water Other											
Prentices Personal Control Co	Pumping Expenses: Purchased Power								3.104	451 385		20,410
Perses Services (501) 74,663 Services (74,168) Services (74,	Purchased Gas Other								(1,635)	1,606		1,606
Fernses 5 - \$ - \$ - \$ - \$ - \$ (2,950) 3.27.721 Fernses 5 - \$ - \$ - \$ (1,700) \$ 2,147,527 \$ - 5	Water Treatment Expenses Transmission & Distribution Expenses								(501) (501) (5,256)	74,663 559,189		74,663 559,189
9 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 -	Sales Expense Administrative & General Expenses								(2,950)	352,721		352,721
4,720 4,720 56,732 219,826 1,040 1,040 12,498 48,426 3,079 1,040 1,040 12,498 48,426 1,040 1,040 1,040 12,498 48,426 1,040 1,040 1,040 12,498 1,040 1,	Total Operations & Maintenance Expense		•	1	,				(11,200)	2,147,527		2
4,720 4,720 56,732 219,826 3,079 1,040 1040 12,498 48,426 \$ 5,079 5,760 \$ 8,839 \$ 267,865 \$ 278,286 \$ 5 - \$ - \$ 2,613 \$ - \$ 3,079 \$ 5,760 \$ (4,975) \$ 2,911,495 \$ 278,286 \$ 5 - \$ - \$ 2,613 \$ - \$ (4,188) \$ (4,188) \$ - \$ (4,188)	Depreciation & Amortization Expenses				(2,613)				(2,613)	496,103		496,103
\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	Taxes Federal Income Taxes State Income Taxes Property Taxes						0.070	4,720 1,040	4,720 1,040	56,732 12,498	219,826 48,426	276,558 60,923
\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	Other Total Tayes						6,0,0		6,0,0	57,585	+50,01	
\$ - \$ - \$ 3,079 \$ 5,760 \$ (4,975) \$ 2,911,495 \$ 2,78,286 \$ - \$ 2,613 \$ - \$ (3,079) \$ (5,760) \$ 4,975 \$ 3,92,054 \$ 426,721 \$ - \$ - \$ (4,188) \$ - \$ (4,188) \$ - \$ (4,188) \$ 2,81,927 \$ - \$ (4,188) \$ - \$ (4,188) \$ 2,81,927 \$ - \$ (4,188) \$ - \$ (4,188) \$ - \$ (4,188) \$ - \$ (4,188) \$ - \$ - \$ (4,188) \$ - \$ - \$ (4,188) \$ - \$ - \$ (4,188) \$ - \$ - \$ (4,188) \$ - \$ - \$ (4,188) \$ - \$ - \$ (4,188) \$ - \$ - \$ (4,188) \$ - \$ - \$ (4,188) \$ - \$ - \$ (4,188) \$ - \$ - \$ (4,188) \$ - \$ - \$ (4,188) \$ - \$ - \$ - \$ (4,188) \$ - \$ - \$ - \$ (4,188) \$ - \$ - \$ - \$ - \$ (4,188) \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	Total Operation Contraction			•			8/0'8	ŀ	8,639	500,102	997'9/7	
\$ - \$ - \$ (4,188) \$ - \$ (4,188) \$ - \$ - \$ (4,188) \$ - \$ (4,188	Operating Income	t r			(2,613) 2,613		3,079		(4,975) 4,975	2,911,495 392,054	278,286 426,721	3,189,781
\$ - \$ - \$ (4,188) \$ - \$ (4,188) \$ - \$ 5 (4,188) \$ 281,927 \$ - \$ 5 (4,188) \$ 281,927 \$ - \$ 5 (4,188) \$ 281,927 \$ - \$ 5 (4,188) \$ 281,927 \$ - \$ 5 (4,188) \$ 5 (4,188	Other Income & Deductions: Interest: Long-Term Debt Short-Term Debt Other					(4,188)			(4,188)	281,927		281,927
\$ - \$ (4,188) \$ - \$ (4,188) \$ - \$ (4,188) \$ 281,927 \$ - \$ (4,188) \$ 281,927 \$ - \$. \$. \$. \$. \$. \$. \$. \$. \$.	Total interest Other (Income) - Net	,				(4,188)	1		(4,188)	281,927	1	281,927
\$ 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Total Other (Income) & Deductions	1	1		,	(4,188)	1		(4,188)	281,927		3 281,927
\$ 2,013 \$ 4,000 \$ (3,000) \$ 9,000 \$ (10,127 \$ 426,121)	Net income	69 69		\$	2,613	\$ 4,188	\$ (620'E) \$	\$ (5,760)	\$ 9,162	\$ 110,127 \$	\$ 426,721	536,848

ARIZONA WATER COMPANY Test Year Ended December 31, 2010 Income Statement Pro Forma Adjustments

	Actual	lej Pro Forma	Adjusted	<u> </u>			ebuttal Income	e Statemen	(H) t Adjustments	Ξ	Ξ	Z.
:	End of Test Year	Adjustments - As Filed	Test Year - As Filed	Rebuttal Adj. IS-1	Rebuttal Adj. IS-2	Rebuttal Adj. IS-3	Rebuttal Adj. IS-4	- 1	Rebuttal Rebuttal Adi. IS-4 Adi. IS-5	Rebuttal BLANK	Rebuttal BLANK	Rebuttal BLANK
Operating Kevenues Residential Commercial	\$ 787,294 § 162,422	\$ (23,484) \$ (2,958)	763,810 159,464									
Private Fire Service Other Water Revenues	146 10,018	141 (1,379)	287 8.639									
Total Water Revenues	\$ 959,880	\$ (27,680) \$	6			· 69	69	€	€ 5	,	· •	49
Miscellaneous Total Operating Revenues	16,436 \$ 976,316 \$	(1,108) \$ (28,788) \$	15,328 947,528 \$, ss	€	€	€	,	,	€9
Operating Expenses Source of Supply Expenses: Purchased Water Other	174,051 3,506	198,916 (869)	372,967 2,637	(48)					(82,364)			
Pumping Expenses: Purchased Power	32,531	1,525	34,056	82								
Other	43,866	5,341	49,207	9								
Water Treatment Expenses Transmission & Distribution Expenses	44,589 85,403	10,636 18,175	55,225 103,578	(77) (1,315)	(9,510)							
Customer Accounting Expenses	104,739	4,429	109,168	(1,492)								
Administrative & General Expenses Total Operations & Maintenance Expense	118,718	15,542	134,260	(419)	(0, 540)	e			- 1		e	e e
rutal Operations & Mainterlation Expense Depreciation & Amortization Expenses	5 607,403 3 75,433	\$ 253,595 \$		(3,263)	* (016,8)	, ,	÷ ♣	(462) \$	(82,364) \$	•	·	÷
Taxes												
Federal Income Taxes State Income Taxes Property Taxes	33,794 3,818 41,960	(83,406) (14,747) 6,261	(49,612) (10,929) 48,221									
Total Taxes		\$ (157,276) \$,	- 49	€	€	\$		69	9
Total Operating Expenses Operating Income	\$ 842,428 \$ \$ 133,888 \$	\$ 133,924 \$ \$ (162,712) \$	976,352 \$	(3,263)	(9,510) 9,510	· ·	\$ \$	(462) \$ 462 \$	(82,364) \$ 82,364 \$, , es es	⇔ ₩
Other Income & Deductions: Interest: Long-Term Debt Short-Term Debt	72,638	(5,156) (1,674)	67,481									
Total Interest	\$ 69,830	\$ (2,349) \$	67,481 \$	1	· ·	· •9	€9	\$	5		· &	69
Other (Income) - Net	(3,213)	3,213	•									
Total Other (Income) & Deductions	\$ 66,618	\$ 864 \$	67,481 \$,		· ·	69	€>		,	· ·	€9
Net income	\$ 67,270	\$ (163,575) \$	\$ (302) \$	3,263 \$	9,510	· •	\$	462 \$	82,364 \$	1	€9	€>

							San Manuel					
	[1]	[M]	[N] Rebuttal Ir	[O] come Statem	[P] ent Adjustments	[0]		R	[S] Total	[T] Adjusted	[U] Required	[V] Adistď w/
Operating Revenues	Rebuttal <u>BLANK</u>	Rebuttal BLANK	Rebuttal BLANK	Rebuttal Adj. IS-6	Rebuttal Rebuttal Rebuttal BLANK Adi. IS-7	Rebuttal Rebuttal		Rebuttal Adi. IS-9 Ac	al I	Test Year - <u>Rebuttal</u>	Increase - Rebuttal	Increase - Rebuttal
Residential Commercial								€9	€9	763,810 159,464		
Industrial Private Fire Service Other Water Revenues										- 287 8 639		
Total Water Revenues	•	6 9	•	₩	\$	€5	65	,	φ.	932,200		
Miscellaneous Total Operating Revenues	€9	сэ	6	es.	€	69	φ.		, ,	15,328	276.037 \$	1,223,565
Operating Expenses Source of Supply Expenses: Purchased Water									(82,364)			290,603
rumping Expenses. Purchased Power Purchased Gas									82	34,138		34,138
Other Water Treatment Expenses									9 9 (4,587)	49,213 45,638		49,213 45,638
Customer Accounting Expenses Sales Expense									(1,315) (1,492) -	102,263 107,676		102,263 107,676 -
Administrative & General Expenses Total Operations & Maintenance Expense	89	69	· •	€	es	€	€ >	φ,	(881) (95,599) \$	133,379	,	133,379
Depreciation & Amortization Expenses					18				18	112,956		112,956
Taxes Federal Income Taxes State Income Taxes Property Taxes Other							066	29,941 6,596	29,941 6,596 990	(19,671) (4,333) 49,211	85,801 18,901 4,779	66,131 14,568 53,990 14,635
Total Taxes	· •>	, ↔	€	69	€9	€	\$ 066	\$ 26,537	37,527 \$	39,843 \$	109,481 \$	149,324
Total Operating Expenses Operating Income	₩ ₩	မာမာ		8 8	18 \$ (18) \$	ю ю.	\$ (066) \$ 066	36,537 \$ (36,537) \$	(58,054) \$ 58,054 \$	918,298 \$ 29,230 \$	109,481 \$	1,027,779
Other Income & Deductions: Interest: Long-Term Debt Short-Term Debt						(67)			(67)	67,414		67,414
lotal Interest	· •	· •	· •	' ₩	69	\$ (29)	\$	⇔ '	\$ (29)	67,414 \$	∽	67,414
Omer (income) - Net										,		ı
Total Other (Income) & Deductions		, 65	· •	€	₩	\$ (29)	69	Ω	\$ (29)	67,414 \$	\$	67,414
Net Income	₩	€	· ω	69	(18) \$	8 29	\$ (066)	(36,537) \$	58,121 \$	(38,184) \$	166,555 \$	128,371

							Oracle					
	[A] Actual	[B] Pro Forma	[C] Adjusted	<u>[a]</u>	(E)	- 1	[G] [H] Rebuttal income Statement Adjustments	[] se Statement /	[H] t Adjustment	Ξ	[2]	<u>\text{\formula} \text{\formula} \formul</u>
	End of Test Year	Adjustments - As Filed	Test Year - As Filed	Rebuttal <u>Adj. IS-1</u>	Rebuttal Adj. IS-2	Rebuttal Adj. IS-3	Rebuttal Adj. IS-4	al Reb	Rebuttal Adj. IS-5	Rebuttal BLANK	Rebuttal BLANK	Rebuttal BLANK
Operating Revenues Residential Commercial	\$ 885,183	3 \$ (84,129) : 8 (22,401)	801,054									
Industrial Private Fire Service Other Water Revenues	- 145 21.055		283									
Total Water Revenues	\$ 1,085,220	\$ (1	o,	-		ι 69	s s	<i>⊌</i>	·	•	- 69	69
Miscellaneous	13,346		12,494					-	ĺ			
		(100,437)			·	, A	A	/)	,	r	, A	·
Operating Expenses Source of Supply Expenses:												
Purchased Water Other	4,996	507	5.203	(20)								
Pumping Expenses: Purchased Power	107,256		107,154	102								
Purchased Gas	•		•									
Other Water Treatment Expenses	34,254		39,396	(88)								
Transmission & Distribution Expenses	94,494	(3,337)	127,733	(66)								
Customer Accounting Expenses	99,824		103,050	(059)								
Sales Expense Administrative & General Expenses	131 434	4 15.763	147 197	(514)				(547)				
Total Operations & Maintenance Expense	\$ 493,263	\$ 53,476	\$ 546,739 \$		· 69	\$	€9	(547) \$	\$. ↔	69
Depreciation & Amortization Expenses	167,307	7 9,502	176,809									
Taxes Federal Income Taxes	60 149	(18 578)	41 571									
State Income Taxes	6,795	-	9,158									
Property Taxes	43,951	(4,156)	39,795									
Total Taxes	\$ 199,695	\$ (96,484)	\$ 103,211 \$		· ·	69	€	\$	'		69	· &
Total Operating Expenses Operating Income	\$ 860,265 \$ 238,301	5 \$ (33,505) \$ 1 \$ (74,952) \$	8 826,760 \$ 163,349 \$	(2,642) \$ 2,642 \$. ·	မာမာ	(547) \$ 547 \$	⇔ ⇔	, ,	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	.,
Other Income & Deductions: Interest: Long-Term Debt Short-Term Debt	83,662 1,929		82,653									
Other Total Interest	(5,162) \$ 80,429	2) 5,162 9 \$ 2,225 \$	\$ 82,653 \$		- -	· •	69	сэ	·		69	У
Other (Income) - Net	(3,996)	966'E (9	1									
Total Other (Income) & Deductions	\$ 76,432	2 \$ 6,221 \$	82,653 \$,	, &	69	\$	69	<i>₽</i>	•	, S	· •>
Net Income	\$ 161,869	9 \$ (81,173) \$	\$ 969'08	2,642	•	8	φ.	547 \$,	· •	φ.

ARIZONA WATER COMPANY Test Year Ended December 31, 2010 Income Statement Pro Forma Adjustments

Operating Revenues Residential Commercial Industrial Private Fire Service Other Water Revenues Total Water Revenues Source of Supply Expenses: Purchased Water Other Purchased Water Other Purchased Water Other Purchased Gas Outher Purchased Gas Other ebuttal Relativity Adj	Sebuttal Rebuttal Rebuttal Adj. 15-8	Rebuttal Adj. IS-9	Rebuttal <u>Adjustments</u>	Test Year - Rebuttal	increase -	100000		
ss \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$				4			Rebutta	Rebuttal
penses: \$ - \$ - \$ penses: \$ Expenses g Expenses neral Expenses neral Expenses neral Expenses neral Expenses				•		\$ 801,054 156,437 - 283		
penses: penses ribution Expenses g Expenses neral Expenses nance Expenses			•			19,841		
penses: penses fluution Expenses g Expenses neral Expenses nance Expenses				· ·		12,494	\$ 130,819 \$	1,120,928
					. (50)	5,153		5,153
					102	107,256		107,256
					(88)	39,308		39,308
					(68)	16,940 126,359		16,940 126,359
, , ,					(09)	102,400		102,400
· · · · · · · · · · · · · · · · · · ·	•		e		(1,061)	146,136		146,136
	,	• •						177,155
Depreciation & Amortization Expenses		346			\$	-		
Taxes Federal Income Taxes				(361)	(361)	41,210 9,078	40,782 8,984	81,992 18,062
State Income Taxes Property Taxes			3,053		3,053	42,848	1,887	44,735 12,688
Other Total Taxes \$ - \$	69	· ·	\$ 3,053	\$ (440)	\$ 2,613	\$ 105,824	\$ 51,654 \$	
Total Operating Expenses \$ - \$ - \$ - \$ Operating Income	ω ω	346 \$ -	\$ 3,053	\$ (440)	\$ (230)	\$ 826,530 \$ 163,579	\$ 51,654 \$ \$ 79,166 \$	878,183 242,745
Other Income & Deductions:								
Interest: Long-Term Debt		931			931	83,584		83,584
Short-Term Debt		•						83 584
Total Interest \$ - \$ - \$	€	- \$ 931	31 \$	' \$	\$ 931	\$ 83,584		
Other (income) - Net								
Total Other (Income) & Deductions \$ - \$.	\$	931 \$ -	· ·		€9		
Net Income	49	(346) \$ (93	(931) \$ (3,053)	\$ 440	\$ (700)	\$ 79,996	\$ 79,166 \$	159,161

ARIZONA WATER COMPANY Test Year Ended December 31, 2010 Income Statement Pro Forma Adjustments

Exhibit
Schedule C-2 Rebuttal
Page 11 of 14
Witness: Reiker

区	Ital Rebuttal				6		ω											8	•							6 9 6	•				· 			
[7]		DE AINE				÷	\$											4	•					6	A .	€ 6	9				e e	- [en en	
[i]	tal Rebutta				69	•	\$											er.							÷	89 8	+			6		•	9 69	
[H] ne Statement Ad	Rebuttal Rebuttal Adi IS-4 Adi IS-5				⇔		\$										(40)	(42) \$						€.	- 1	42) \$	Ш			e		6	. 42 \$	
					\$		\$											\$						69	.	s s				e.	•	y		
	ttal Rebuttal S-2 Adi. IS-3				s		€											69						65	. 6	÷ 60				69		6	φ.	
	ttal Rebuttal				\$		& >			,			18	؛ ,	(20)	(8)	(32)	(45) \$						65	(45) \$					69		69	45 \$	
Adjusted	As Filed Adj. IS-1	45,127		85 9.032	115,521 \$	1,582	117,103 \$,	246		103,754	17,703	753	7,190	8,102	10,107	147,856 \$	89,428		(38,543)	(8,491)	5,275	(41,192) \$		\$ (686,87)		(4,169)		(4,169) \$		(4,169) \$	(74,819) \$	
Pro Forma Adj		7,958 \$		(7) (730)	69		8,762 \$,	42	•	. ,			2,772	4,004		23,328 \$ 1	8,837		Ŭ			(26,240) \$ (4	69				89	(1,348) \$ (294	(1,054) \$ (3,891 \$ (7,	
Actual Pr	_	37,169 \$ 59,615	, 6	92, 97,62	106,638 \$		108,341		•	204	103 754	103,734	2,271	634	4,418 6,098)))	ı	124,528 \$	80,591		(20,654)	(2,333)	8.035	(14,952) \$	190,167 \$	(81,826) \$		(2,935)	(89)	(2,821) \$	(294)	(3,115) \$	(78,711) \$	
	Operating Revenues	Residential \$	Industrial Private Fire Service	les	oda water Kevenues	Miscellaneous Total Operating Revenues		Operating Expenses Source of Supply Expenses:	Purchased Water	Other Pumping Expenses:	Purchased Power	Purchased Gas	Other Water Treatment Expenses	Transmission & Distribution Exposure	Customer Accounting Expenses	Sales Expense	Total Operations & Michael Expenses	control of manifestation expense	Depreciation & Amortization Expenses	Taxes	Federal Income Taxes State Income Taxes	Property Taxes	Other	Total Taxes	Total Operating Expenses	Operating income	Other Income & Deductions:	Interest: Long-Term Debt Short-Term Dehr	Other	Total Interest	Other (income) - Net	Total Other (Income) & Deductions	Net Income \$	

								Š	SaddleBrooke Ranch	Ranch					
	Ξ		<u>[</u> W	[N] Rebutt	tał Income	[N] [O] [P] Rebuttal Income Statement Adjustments	[P] djustments	Ø.		<u>R</u>	[S] Total	[T] Adjusted		[U] Required	[V] Adistď w/
Oneration Revenues	Rebuttal		Rebuttal <u>BLANK</u>	Rebuttal		Rebuttal Adi. IS-6	Rebuttal Adj. IS-7	Rebuttal Adj. IS-8		Rebuttal Adj. IS-9	Rebuttal Adjustments	Test Year Rebuttal	,	Increase - Rebuttal	Increase - Rebuttal
Operation Residential Commercial Industrial											+ 1 1 ₩	\$ 45, 61,	45,127 61,277		
Private Fire Service Other Water Revenues Total Water Revenues	မာ	€		69	69		·	69	6 9	,	 	9,032 \$ 115,521	85 9,032 5,521		
Miscellaneous Total Operating Revenues	89	₩.	,	69	69	ı		69	69			\$ 117,	1,582 117,103 \$	127,571 \$	244,673
Operating Expenses Source of Supply Expenses: Purchased Water Other Pumping Expenses:											1 1		- 246		246
Purchased Power Purchased Bower Outher Water Treatment Eventor											. , 8	103	03,754		103,754
Water (Carline) Expenses Transmission & Distribution Expenses Customer Accounting Expenses Sales Expense											(20)		753 7,170 8,094		753 7,170 8,094
Administrative & General Expenses Total Operations & Maintenance Expense	€	€\$		69	\$,	· •	69	у		\$ (87)	€9	10,030 147,769 \$		10,030
Depreciation & Amortization Expenses						8					2	89,	89,429		89,429
Taxes Federal Income Taxes State Income Taxes Property Taxes Other									(207)	(1,226)	(1,226) (270) (207)		(39,770) (8,761) 5,068 567	39,770 8,761 1,840	(0) (0) 6,908 567
lotal raxes	.,	↔		∽	φ.	'	, \$>	₩	(207) \$	(1,496)	\$ (1,704)	€9	(42,895) \$	50,371 \$	7,475
lotal Operating Expenses Operating Income	es es	es es		s s	↔ ↔	2 (2)	69 69	• •	(207) \$	(1,496)	\$ (1,789) \$ 1,789	• • •	194,302 \$ (77,200) \$	50,371 \$ 77,200 \$	244,673
Other Income & Deductions: Interest: Long-Term Debt Short-Term Debt							4,169	œ			4,169				
Total Interest	• •	€9	r	€	€9	'	\$ 4,169	\$	₩.		\$ 4,169	↔	€>	<i>•</i>	
Oriel (income) - Net											•				,
lotal Other (Income) & Deductions	€	69		⇔	69	,	\$ 4,169	↔	⇔	ı	\$ 4,169	⇔	\$	⇔	ı
Net Income	₩	69		€	€9	(2)	\$ (4,169)	\$ (6	207 \$	1,496	\$ (2,380)	co	(77,200) \$	77,200 \$	(0)

Recap Schedules: C-1 Rebuttal

ARIZONA WATER COMPANY Test Year Ended December 31, 2010 Income Statement Pro Forma Adjustments

Test Year Additional Rebuttal Rebutt			20.00	nalenta				3	CALEMENT ACTOR	Thents			
Secretary Secr	Onerating Devenues	End of Test Year	Adjustments - As Filed	Test Year - As Filed	Rebuttal Adj. IS-1	Rebuttal Adj. IS-2		Rebuttal Adj. IS-4	Rebuttal Adj. IS-5		_	buttai	Rebuttal
Activate Revenues 3 (2,189) 4 (3,088) 4 (3,088) 4 (3,088) 4 (3,088) 4 (3,088) 4 (3,088) 4 (3,089) 4 (3,088) 4 (3,089) 4 (3,089) 4 (3,089) 4 (3,089) 4 (3,089) 4 (3,089) 4 (3,099	Residential		69	\$ 54,242									
The determinance The determi	Industrial	46,764 3,046		43,098 3,089									
Wider Revenues \$ 103/500 \$ (3160) \$ (100,429 \$	Private Fire Service Other Water Revenues	1 1											
Sections Sections	Total Water Revenues		\$	1	-		· •				₩,	69	
The Charles of Expenses and Expenses are all to the Charles and Expenses are all to the Charles are all to the Cha	Miscellaneous	1	(140)	1,669			ı						
The Expenses: 172 16 388 (5) 184 27 16 388 (5) 185 27 16 388 (5) 185 27 16 388 (5) 185 27 16 388 (5) 185 27 16 388 (5) 185 27 16 388 (5) 185 27 16 37 27 16 185 27 16 37 27 16 185 27 356 7 456 7 456 7 756 7 185 27 356 7 756 7 756 7 185 27 356 7 756 7 185 28 25 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	oral Operating Revenues		\$ (3,320)	102,098	•	-	, 6	, 69				'	
Particle Particle	Operating Expenses Source of Supply Expenses: Purchased Water												
High Expenses (6.511 270 6.781 41 41 41 41 41 41 41 41 41 41 41 41 41	Other	372	- 16	388	(2)								
Treamont Expenses 3,559 4.49 4,108 (7) 7,391 (14) 7,391	Fumping Expenses: Purchased Dower		į		•								
Treatment Expenses 3,559 449 4,108 (7) (7) (14) (284 7,541 (7) (14) (144 229 10,673 (47) (144) (144) (284 7,541 (17) (144) (284 7,541 (17) (144) (284 7,541 (18) (187 47) (187 47) (187 47) (187 47) (187 48) (187 48) (187 48) (187 48) (187 48) (188 8,104	Purchased Gas	6,511	270	6,781	41								
1,000 2,00	Other	3,659	449	4 108	6								
10,566 6,652 16,617 (144)	Water Treatment Expenses	8,215	(854)	7.361	S 6								
Professor Ming Expenses 10,444 229 10,673 (47) Instative & General Expenses 13,240 1,517 14,757 (46) (35) \$. \$ \$	Transmission & Distribution Expenses	10,565	6,052	16,617	(144)								
Amounted acceptions of the state o	Customer Accounting Expenses	10,444	229	10,673	(47)								
ations & Maintenance Expenses 27,356	Sales Expense Administrative & General Expenses	12 240			í								
Tall Income Taxes (7,063) 20,295 Tall Income Taxes (1,168) 445 Tall Income Taxes (1,168) 445 Through Expenses (1,167) (1,168) 445 Through Expenses (1,167) (1,168) 445 Through Expenses (1,167) (1,168) (1,167) (otal Operations & Maintenance Expense		\$ 7,681	60,687	- 1	,			65		<i>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</i>		
Fig. 1 (1,168) 445 162 163 1645 163 1645 162 163 1645 1645 1645 1645 1645 1645 1645 1645 1645 1645 1645 1645 1653 165	epreciation & Amortization Expenses	27,358	(2,063)	20,295						•	•	•	
1613 (1,168) 445	Taxes												
Income laxes 7 (84) 98 17 Taxes 7 (820 (84) 98 17 Taxes 7 (820 (877) \$ 9.986 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	Federal Income Taxes	1,613	(1,168)	445									
# 10 dates	State Income Taxes	182	(84)	86									
\$ 18,663 \$ (8,677) \$ 9,986 \$. \$. \$. \$. \$. \$. \$. \$. \$. \$	Other	0,620	484	8,104									
sting Expenses \$ 99,027 \$ (8,060) \$ 90,967 \$ (217) \$ - \$ - \$ - \$ - \$ \$ (35) \$ - \$ - \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ \$	otal Taxes		(8,677)	986'6	•	,	·	69			İ	69	
S Deductions: \$ 6,391 \$ 4,740 \$ 11,131 \$ 217 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	otal Operating Expenses			90 967	- 1				6	-			
Term Debt 10,684 (417) 10,268 Term Debt 246 (246)	perating Income			11,131	i 13		· ·		9 69			**	`
Term Debt 10,684 (417) 10,268 -Term Debt (659) (246) . (659) 659 . (659) 659 . (659) 659 . (659) 659 . (659) 659 . (600me) Net (372) 372 . (Income) & Deductions \$ 9,899 \$ 368 \$ 10,268 \$. \$. \$. \$. \$. \$. \$. \$. \$. \$	ther Income & Deductions:												
Term Debt 10,684 (417) 10,268 -Term Debt (246) (246) . (659) 659 . S 10,271 \$ (4) \$ 10,268 \$. \$. \$. \$. \$. \$. \$. \$. \$. \$	Interest:												
terest (559) 659 - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	Short-Term Debt	10,684	(417)	10,268									
terest \$ 10,271 \$ (4) \$ 10,268 \$. \$. \$. \$. \$. \$. \$. \$. \$. \$	Other	(659)	(246) 650	•									
Income) - Net (372) 372 \$. \$. \$. \$. \$. \$. \$. \$. \$	Total Interest	10	(4)	10,268				\$	69	69	8	69	
(Income) & Deductions \$ 9,899 \$ 368 \$ 10,268 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	Other (Income) - Net	(372)	372	•									
(incurie) & Deutschals & 9,899 & 368 & 10,268 & . \$. \$. \$. \$. \$. \$. \$. \$. \$.	otter (promo) & Continue												
\$ (3508) \$ 4374 \$ 062 \$ 747 \$			368	10,268					· \$	ss.		сэ '	'
\$ 32 \$ - \$ - \$ 32 \$	et Income	\$ (3,508)	\$ 4,371 \$	863 \$	217 \$			\$ 35	\$	69	69	69	'

									Winkelman					
	2	£	[W]	[N] Rebuttal Inc	[N] [O] [P] Rebuttal Income Statement Adjustments	[] ont Adiustme	[P] lents	<u>[</u>	[R]	-	[S] Total	[T] Adjusted	[U] Required	[V] Adistď w/
Onerating Bevenues	Rebuttal BLANK	Rebutta BLANK	uttai NNK	Rebuttal BLANK	Rebuttal Adj. IS-6	Reb	Rebuttal Adj. IS-7	Rebuttal Adj. IS-8	Rebuttal Adj. IS-9		Rebuttal Adjustments	Test Year - Rebuttal	increase - Rebuttal	Increase - Rebuttal
Provinces Residential Commercial Industrial Private Fire Service Other Water Revenues										↔	↔	54,242 43,098 3,089		
Total Water Revenues	€	€		,	69	€	,		€9	\$	₩	100,429		
Miscellaneous Total Operating Revenues	မာ	69	•	1	↔	65	69		es.	69	. ,	1,669	\$ 31,855	\$ 133,953
Operating Expenses Source of Supply Expenses: Purchased Water											, (, {
Pumping Expenses: Purchased Power											(c) 14	.383 6,822		583 6,822
Purchased Gas Other Water Treatment Expenses											. 66	4,101		4,101 7,354
Transmission & Distribution Expenses Customer Accounting Expenses											(144) (47)	16,473 10,626		16,473 10,626
Sares Expense Administrative & General Expenses Total Operations & Maintenance Expense	89	69	σ	r	6	€9	6	1	69	65	(83)	14,674 60,435		14,674
Depreciation & Amortization Expenses						2					2	20,297		20,297
Taxes Federal Income Taxes State Income Taxes Property Taxes Other								806		(171)	(171) (38) 806	274 60 8,910 1.339	9,783 2,155 927	10,057 2,215 9,837 1,339
Total Taxes	€9	69	69		₩	₩	⇔	806	\$	(208) \$	\$ 265	10,583	\$ 12,865	\$ 23,448
Total Operating Expenses Operating Income	မာမာ	es es	φ φ		မ မ	2 \$ (2)	9 9	806 (806)	\$ (9	(208) \$ 208 \$	347 \$ (347) \$	91,315	\$ 12,865 \$ 18,990	\$ 104,179 \$ 29,774
Other Income & Deductions: Interest: Long-Term Debt Short-Term Debt							(16)				(16)	10,252		10,252
Total Interest	€9	69	·	1	, es	∽	(16) \$		69	65	(16) \$	10,252	· •	\$ 10,252
Other (Income) - Net											•	1		1
Total Other (Income) & Deductions	64	€9	69		, €	€9	(16) \$	ı	69	69	(16) \$	10,252	,	\$ 10,252
Net Income	69	€		1	₩.	(2) \$	16 \$	(808)	\$ (0	208 \$	(332) \$	532	\$ 18,990	\$ 19,522

Recap Schedules: C-1 Rebuttal

ARIZONA WATER COMPANY
Test Year Ended December 31, 2010
Rebuttal Income Statement Adjustment IS-1
Accept Staff Income Statement Adjustment No. 1 - Unbilled Expense Accruals

Source of Purchased Pumping - Water Supply Power Other Treatmen Expense Expense Expense Increase /	\$ (454) \$ 208 \$ (5,867) \$ (429) 3,104 (1,635) (48) 82 6 (50) 102 (88) -18 (5) 41 (7)	(986) \$ 3,537 \$ (7,573) \$	\$ (986) \$ 3,537 \$ (7,573) \$
Water Transmission Treatment & Distribution Expense Expense Increase / Increase / IDecrease)	(569) \$ (14,469) (501) (5,256) (77) (1,315) (68) (1,374) - (20)	(1,222) \$ (22,578)	(1,222) \$ (22,578)
Customer A Accounting Expense Increase /	(13,469) \$ (13,469) \$ (2,936) (1,492) (650) (650) (65) (65) (67)	(18,616) \$	(18,616) \$
Administrative & General Expense Increase /	(7,277) \$ (1,739) (419) (514) (35) (48)	(10,032) \$	(10,032) \$
Total Increase / (Decrease)	(41,897) (9,406) (3,263) (2,642) (45)	(57,470)	(57,470)

Stat	tal Income Stat t Staff Income	Adjustment IS-2	ent Adjustment No. 4 - Water Testing Expense
T Q	π∢	Statement A	t Staff Income Statement Adjustment No. 4 - Wa

Water Testing Expense Increase / (Decrease) \$ (9,510)	\$ (9,510) \$ (9,510)	(9.510)
Line 1	10 11 Subtotai 13 Totai 14	16 Increase/(Decrease) in Water Treatment Expenses 17 18 19 20 21 22 23 24 25 26 27 39 30 31 34 40 41 41 42 44 44 45 55 55 56 56 57 58 58 58 58 58 58 58 58 58 58 58 58 58

ARIZONA WATER COMPANY
Test Year Ended December 31, 2010
Rebuttal Income Statement Adjustment IS-3
Accept Staff Income Statement Adjustment No. 5 - Best Management Practices (BMP) Expense

BMP Expense increase / (Oecrease) \$ (6.850) \$ (6.850)	(6,850)
Eastern Group Superstition Cochise San Manuel Oracle SaddleBrooke Ranch Winkelman Subtotal	Increase/(Decrease) in Administrative & General Expenses
Line No. 10 10 10 10 10 10 10 10 10 10 10 10 10	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5

Schedule C-2 Rebuttal Appendix Page 4 of 20 Witness: Reiker Exhibit

Recap Schedules:

ARIZONA WATER COMPANY
Test Year Ended December 31, 2010
Rebuttal Income Statement Adjustment IS-4
Accept RUCO Income Statement Adjustment No. 4 - Miscellaneous Expense

Miscellaneous Expense Increase / (Decrease)	\$ (7,522) (1,794) (462) (547) (42) (35)	\$ (10,402)	\$ (10,402)	\$ (10,402)												
	in Group Superstition Cochise San Manuel Oracle SaddieBrooke Ranch Winkelman	Subtotal		Increase/(Decrease) in Administrative & General Expenses												
6 <u>9</u>	3 Eastern Group 4 Superstiffe 5 Cochise 6 San Manu 7 Oracle 8 SaddleBrc 9 Winkelma	12 12	13 Total 14 15		20 21 22	23 25 26	27 28 29	32 33	35 35	36 37 38	39 40	42 43	46 46 46	4 48 49 89	50 52 52	53 55 55

ARIZONA WATER COMPANY

Test Year Ended December 31, 2010

Rebuttal Income Statement Adjustment IS-5

Adjust Purchased Water Expense in the San Manuel System to Reflect Updated Purchased Water Rate

Water Expense Increase / (Decrease) \$ (82,364)	\$ (82,364)	\$ (82,364)
Line No.	Total	16 Increase (Decrease) in Administrative & General Expenses 17 18 19 20 21 22 23 24 25 29 30 30 31 40 40 41 41 42 44 44 45 55 55 55 56 56 57 58 58 58 58 58 58 58 58 58 58 58 58 58

ARIZONA WATER COMPANY
Test Year Ended December 31, 2010
Rebuttal Income Statement Adjustment IS-6
Adjust Depreciation Expense to Reflect Rebuttal Plant Adjustments

Public Report Public Repor	Peticidad Peti	intangii Ori Ori Ori Ori Wer Water Ten Water Gaa Gaa Sto Sto Sto Ser Transm Weeral Wee	' ' ' '	Rebuttal Rate Base Adjustments - Oirect Plant (7,699) \$ (7,699) \$ (1,540) (1,655) \$	8 8 8 9	(3) 37 (3) (41) (41) (41) (41) (41) (41) (41) (41	σ σ σ σ	(Decrease) Meter Shop (3-factor Alloc.) 0.2865	Total Increase (C + D + E 1 1 1 1 1 1 1 1 1
Page Page	Properties Pro	Intangii France Ott Ott Ott Water I Water I Water I Transm Transm Well of General General General	' ' ' '	Rate Base Adjustments - Oirect Plant (7,699) \$ (7,699) \$ (1,540) (1,655) \$	\$ \$ \$ \$ \$ \$	(3) 37 (41) (70) (70) (8) (8) (8) (9) (8) (9) (8) (9) (8) (9) (8) (9) (8) (9) (8) (9) (9) (8) (9) (9) (9) (9) (9) (9) (9) (9) (9) (9	σ, Ι _α , Ι _α , Ι _α , Ι _α , Ι _α ,	(3-factor Alloc.)	Increase (C + D + E (C + D + E (2 +
Charge C	Page Character	Intangii France Ott Ott Ott Water 1 Water 1 Water 1 Water 1 Water 1 Water 1 France Meter 4 General General	' ' '	\$ \$	\$ \$ \$ \$ \$	(3) 37 37 41) (2) (3) (4) (4) (4) (5) (6) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7	σ σ φ φ	(3-factor Alloc.)	(C + D + E
Committee Part Committee	Controller Plant Control P	Intangit Orthonia Ottonia Water J Water J Water J Water J Water J Water J Water J Water J Water J Water J Gan Gan G Gen Gen G Gen Gen G		(7,699) (7,699) (1,540) (1,656)	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	(3) 37 (3) 37 (70) (70) (70) (70)			(2)
Contention of the part Contention of the p	Contentional Contention Con	Fire Secretary National Part Transm Meteral Transm		(7,699) (7,699) (1,540) (1,655) \$			69 69 69 69 69 69 69 69 69 69 69 69 69 6		(2)
Contracting places Contrac	Occasion Control Interpolates Control I	Source Source Source We We We Water Transm Transm Meter Transm Meter Transm Meter Transm Meter Transm Meter Ser Fire Ser Ser Ser General Garanam Meter Meter Meter Meter Meter General Control	' ' '	(7,699) (7,699) (1,699) (1,659)			69 69 69 69 69 69 69 69 69 69 69 69 69 6		(2/2)
Source of Supply Bant (1992) Water Spanner (1992)	Search (Finder Finder) Faint - Water (Finder Finder) Faint - Water (Finder Finder) Faint - Water (Finder Finder) Faint - Water (Finder Finder) Faint - Water (Finder Finder) Faint - Water (Finder Finder) Faint - Water (Finder Finder) Faint - Water (Finder Finder) Faint - Water (Finder Finder) Faint - Water (Finder Finder) Faint - Water (Finder Finder) Faint - Water (Finder Finder) Faint - Water (Finder Finder) Faint - Water (Finder Finder) - Water (Finder Finder) - Water (Finder Finder) - Water (Finder Finder) - Water (Finder Finder) - Water (Finder Finder) - Water (Finder) - Wat	Source Well Wale		(7,699) (7,699) (115) (1,540)		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			(2)
Subtotal Source of Supply Bant Water Rights Water Rights Water Character Character of Supply Land Water Rights Water Character Character of Supply Land Water Rights Water Character Character of Supply Land Water Charac	Source of Supply Bant Water Pights Water Pights Water Presented Engineer Water Pights Water Presented Engineer Water Presented Engineer Water Presented Engineer Water Presented Engineer Water Presented Engineer Water Treatment Engineer Water	Source Water W	' ' '	(7,699) (7,699) (1,540) (1,655)	" " "		φ φ φ φ φ φ φ φ φ φ φ φ φ φ φ φ φ φ φ		7 7 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
Other Square of Supply Land OD099, Verification of Monotracion of Annotracion	Water Spirote Source of Supply Land 0.00% Other Source of Supply Land 0.00% (7.699) \$ (241) \$ \$ \$ Water Source of Supply Plant 0.00% (1.5) \$ (241) \$ \$ \$ Purmang Plant Land 0.00% (1.5) 3.4.44 1.897 1.1 Purmang Plant Land 0.00% (1.5,40) 3.4.44 1.804 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	Mean Mean Mean Mean Mean Mean Mean Mean	, , ,	(1,699) (7,699) (1,599) (1,540) (1,655)	ļ		(c) (c) (c) (c) (c) (c) (c) (c) (c) (c)		(2, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,
Wells - Cheek Supply Land 100% 13%	Wells - Charles of Supply Land	Wee Wash	' ' '	(7,699) (7,699) (115) (1,540) (1,655)					(2)
Wells - Other Wells - Other C C C C C C C C C	Very Part	wwe we we bumpin Pumpin	' ' '	(7,699) (7,699) (115) (1,540) (1,655)					(2)
Wear Panical Source of Supply Plant 313% (7,699) \$ (7,699) \$ (7,69) <t< td=""><td> Walkers Survice of Supply Plant 313% 7 (2669) \$ (241) \$ (241) \$ \$ (241) \$ \$ (241) \$ \$ \$ (241) \$ \$ \$ (241) \$ \$ (241) \$ \$ (241) \$ \$ (2</td><td>We Pumpin Pumpin PumPumpin Pum Pum Pum Pum Water Transm Was Water Transm Pine Ser Fire Ser Fire General General Canada Canada Pumpin Pu</td><td>' ' '</td><td>(7,699) (7,699) (7,699) (1,540) (1,655)</td><td></td><td></td><td>69 69 69 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1</td><td></td><td>2 2 2</td></t<>	Walkers Survice of Supply Plant 313% 7 (2669) \$ (241) \$ (241) \$ \$ (241) \$ \$ (241) \$ \$ \$ (241) \$ \$ \$ (241) \$ \$ (241) \$ \$ (241) \$ \$ (2	We Pumpin Pumpin PumPumpin Pum Pum Pum Pum Water Transm Was Water Transm Pine Ser Fire Ser Fire General General Canada Canada Pumpin Pu	' ' '	(7,699) (7,699) (7,699) (1,540) (1,655)			69 69 69 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		2 2 2
Pumping Plant Pumping Plan	Pumping Plant	Pumpin Pur Bur Ga, Water J Water J Transm Transm Transm Fire Ser Fire Ser Ageneral	' ' '	(7,699) (115) (1,540) (1,655)			, , , , , , , , , , , , , , , , , , ,		(2)
Pumping Plant Land Cost Bellow (115) Cost Cost Cost Cost Cost Cost Cost Cost	Pumping Plant Land Pumping Plant Pumping Plant Land Pumping Plant Pumping Plant P	Pumpin Pumpin Pum Pum Pum Pum Pum Pum Pum Pum Pum Water] Water] Water] Water] Water] Fire Fire Fire Ser Met Hyd Hyd General General Centre Pumpin Pumpi	1 1	(1,656)			· · · · · · · · · · · · · · · · · · ·		(2) (2
Pumping Plant Land 0.00% (115) 0.4444 (397) Case Engine Equipment 6.88% (1,540) 34.484 (1,937) Case Engine Equipment 4.00% \$ (1,650) \$ 34,484 1,391 \$ \$ Subtractive Plant 4.00% \$ (1,650) \$ 34,484 1,394 \$ \$ \$ Water Treatment Plant 0.00% \$ (1,650) \$ 34,484 1,394 \$ \$ \$ Water Treatment Plant 0.00% \$ (1,650) \$ (2,607) \$ \$ \$ \$ \$ Water Treatment Plant 0.00% \$ (2,607) \$ (2,370) \$ \$ \$ \$ Valent Treatment Plant 0.00% \$ (2,607) \$ (533) \$ \$ \$ Source Treatment Plant 0.00% \$ (3,607) \$ (533) \$ \$ \$ Surger Treatment Plant 0.00% \$ (3,607) \$ (518) \$ \$ \$ Surger Treatment Plant 0.00% \$ (3,607) \$ (518) \$ \$ \$ Surficular 0.00% <t< td=""><td> Funipid Paint Land 200% (115) 34,444 1,937 (1540) 24,444 1,934 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,4</td><td>Pur Pur Be Gaa Water] Wa Wa Transm Transm Transm Transm All Met Hyd Hyd General</td><td>1 1</td><td>(1,540)</td><td> </td><td>1</td><td>69 69</td><td></td><td></td></t<>	Funipid Paint Land 200% (115) 34,444 1,937 (1540) 24,444 1,934 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,444 1,4	Pur Pur Be Gaa Water] Wa Wa Transm Transm Transm Transm All Met Hyd Hyd General	1 1	(1,540)		1	69 69		
Case Equipment Case	Control Part Cont	Fundamental Pundamental Water 1 Water 1 Water 1 Water 1 Transm Transm Transm Storemal Seneral Seneral General General Lear 1	, ,	(1,540)		I	φ- φ-		
Case frigulation 5.88% (1.540) 34.464 1.937 1.848	Second Equipment Sees	Ele Gau Water 1 Wa Wa Wa Transm Tran Sto Tra Ser Fire Met Hyd Ger Ger	' '	(1,540)		I	φ φ.		
Subtolar Pumping Parent 4,00% 5 (1,655) \$ 34,464 \$ 1,534 \$ 5 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	See Eighte Equipment	Gar Water 1 Wa Wa Wa Transm Tra Stor Ser Ser Hyd Hyd Geral	' '	(1,655)		1	1 1 1 1 1		
Water Treatment Plant Land Valer Treatment Plant Land Valer Treatment Plant Land Valer Treatment Plant Land Valer Treatment Plant Land Valer Treatment Plant Land Valer Treatment Structures & Improvements 2.86% (82.867) (2.370) \$. \$. \$. \$ Subtised Mayber Treatment Structures & Improvements 2.86% (82.867) (2.370) \$. \$. \$. \$ Institution Mains Treatment Plant 1.79% (35.867) (35.367) (33.36)	Subtract Pumping Plant Subtract Pumping Plant Water Treatment Plant Water Plant	Water J Wa Waa Waa Waa Transm Tra Sto Fire Sere General	' '	(1,655)	""	1	 		
Water Treatment Plant 0.00% \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	Water Treatment Plant Land 0.00% \$ <th< td=""><td>Water J Wa wa wa wa wa wa wa wa wa wa wa wa wa wa</td><td>ľ</td><td></td><td></td><td></td><td>9 e9</td><td></td><td></td></th<>	Water J Wa wa wa wa wa wa wa wa wa wa wa wa wa wa	ľ				9 e9		
Water Treatment Plant 0.00% Water Treatment Plant 0.00% \$ <th< td=""><td>Water Treatment Structures & Improvements 0.00% Vale Treatment Structures & Improvements 2.86% \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$</td><td>Wa Wa Wa Wa Transm Tra Ser Ser Hyd Hyd Ger</td><td>ı</td><td></td><td>(82,867) (82,867) \$</td><td></td><td>· · · · ·</td><td></td><td></td></th<>	Water Treatment Structures & Improvements 0.00% Vale Treatment Structures & Improvements 2.86% \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	Wa Wa Wa Wa Transm Tra Ser Ser Hyd Hyd Ger	ı		(82,867) (82,867) \$		· · · · ·		
Wider Treatment Structures & Improvements 2.56% (92,867) (2,370) \$ \$ Subtraction Expansed Plant 2.86% \$ (92,867) \$	Water Treatment Structures & Improvements 2.56% (92,867) (2,370) \$	Wa Wa Wa Wa Wa Wa Wa Ma Met Met Met Met Met Met Met Met Met Met	ı		(82,867) \$	į.	φ.		
Water Treatment Equipment 2.86% \$ (82,867) \$	Water Treatment Equipment 2.86% \$ (92,867) (2,370) \$ \$ \$ Cubotod without Plan	Wa Transm Sto Ser Fire Ser Met Hyd General Gen Gen	1		(82,867) (82,867) \$ 764	[, , ,		
Subtolar Treatment Part Treatment Pa	Subtolar Treatment Part Treatment Pa	Transm Tra Sto Tra Fire Ser Met Hyd General Gen	1		(82,867) \$	1	\$		
Transmission and Distribution Plant	Transmission & Distribution Plant	Transm Tra Sto Tra Ser Met Hyd General Gen	0.00% 2.00% 1.79%	• • • • • • • • • • • • • • • • • • •	764		,	ı	
Transmission and Distribution Land 2,00% 764 15 179%	Transmission and Distribution Land 200% 764 15 159% 179% 1	Sto Sto Sto Sto Sto Sto Sto Sto Sto Sto	0.00% 2.00% 1.79%		764	ı			, `
Transmission & Distribution Mains 1 200% 1 794 15 15 1 704 15 1 1 704 10 1 1 704 10 1 1 704 10 1 1 704 10 1 1 704 10 1 1 704 10 1 1 704 10 1 1 704 10 1 1 704 10 1 1 704 10 1 1 704 10 1 1 704 10 1 704 1	Transferror Transferror	Tra Fire Ser Met Hyd Geral Ger	2.00% 1.79%		764		,	•	•
Haritmisson & Listabution Mains 179% 1	Transmission & Distribution Mains 179%	Fire Ser Met Hyd General Gen	1.79%			15	,	•	
Fire optimizer laps 2,00% Fire optimizer laps 2,00% Holers	Fire Sprinder Tabs 2.00%	Serial Ser Ser Hyd Hyd Serial Serial Ger Ger Lea		•	(35,367)	(633)	1		(9)
Meters	182% 182%	Met Hyd General Gen Gen	2.00%	Í		· • '	,	t	} '
1.82% 1.82	1.85% Hydrants	Hyd General Gen Gen	2.38%	,	1		Ť	,	ı
Subtotal Transmission & Distribution Plant General Plant General Plant General Plant General Plant General Plant General Plant General Plant General Plant General Plant General Plant General Plant General Plant General Plant General Plant Tools, Shop & Garage Equipment Anower Operated Equipment Ower Operated Equipment General Plant Fower Operated Equipment General Plant Subtotal General Plant Subtot	182% State Tansmission & Distribution Plant 182% State Sta	Seneral Ger Ger Ger	4.55%	1		,	1	•	,
Subtraction Plant Subtraction Residence Subtract	Service Plant Land	General Ger Ger Lea	1	1			,	٠	,
Central land Cent	Control Plant Land	5			Ι_	ı	4	1	
Central Plant Structures 2,50% Central Plant Structures 2,50% Central Plant Structures 2,50% Central Plant Structure & Equipment 6,67% Centributions 6,67% Centributions Central Plant	Control Cont							•	
2.50% Leasehold Improvements Office Furniture & Equipment Office Furniture & Equipment Warehouse Equipment Tools, Stop & Garage Equipment 1.00% Flower Operated Equipment Communication Equipment Communication Equipment Subtotal General Plant Subtotal General Plant Subtotal General Plant Subtotal General Plant Subtotal General Plant Subtotal General Plant Subtotal General Plant Subtotal General Plant Subtotal General Plant Subtotal General Plant Subtotal General Plant Subtotal General Plant Subtotal General Plant Subtotal General Plant Subtotal General Plant Subtotal General Plant Subtotal General Plant Subtotal General Plant Subtotal General Plant Subtotal General Appndx.) Confributions in Aid of Construction 2.00% Total Increase/(Decrease) in Depreciation & Amortization Expense - Rebuttal	Care are are are are are are are are are		0.00%	,	,	,	1	,	•
Office Furniture Ordinary State	Office Furniture & Equipment		2.50%		,	•	,		,
Second Paragraph Second Para	Shop & Garage Equipment		note_2	ı			•	,	1
Total Foundation	Vocationary Equipment		6.67%	•	•	t	•	1	1
100% 100%	Communication Equipment	·	2.00%	1		ı	,	,	•
Power daily Equipment	Power daily Equipment		4.00%	,			(293)		(29
Communication	Communication Equipment Miscellaneous Equipment Miscellaneous Equipment Miscellaneous Equipment Subtotal General Plant Subtotal General General Plant Subtotal General Plant Subtotal General Plant Subtotal General Plant Subtotal General Plant Subtotal General G		2.00%	ı	1	,	, '	,	į ·
Software Equipment	Miscellaneous Equipment		6.67%	1		1		,	•
3.33%	3.33% \$. \$ (565) \$ (38) \$. 13 \$. \$ \$ Subtotal General Plant \$. \$ (565) \$ (38) \$. 13 \$. \$ \$ Depreciation Expense - Utility Plant \$. (1,333) \$. 13 \$. \$ \$ Contributions in Aid of Construction 2.00% \$ \$ \$ 1 Acrt 302 Eranchize mentions & Amortization Expense - Rebuttal		6.67%	ı	(292)	(38)	909	,	56
Second Series Platt Second Series Platt Second Series Second Series Second Secon	Secondary Carlicial Plant	MIS	1	-	•		•		
Pepreciation Expense - Utility Plant Squared Section (1,333) \$ 313 \$ - \$ 80 (9,354) \$ (83,551) \$ (1,333) \$ 313 \$ - \$ 80 (9,354) \$ (1,333) \$ 313 \$ - \$ 80 (90 (1,333) \$ 313 \$ - \$ 80 (1,333) \$ 313 \$ - \$ 80 (1,333) \$ 313 \$ - \$ 80 (1,333) \$ 313 \$ - \$ 80 (1,333) \$ 313 \$ - \$ 80 (1,333) \$ 313 \$ - \$ 80 (1,333) \$ 313 \$ - \$ 80 (1,333) \$ 313 \$ - \$ 80 (1,333) \$ 313 \$ - \$ 80 (1,333) \$ 313 \$ - \$ 80 (1,333) \$ 313 \$ - \$ 80 (1,333) \$ 313 \$ - \$ 80 (1,333) \$ 313 \$ - \$ 80 (1,333) \$ 80 (1,	Pepreciation Expense - Utility Plant \$ (9,354) \$ (83,551) \$ (1,333) \$ 313 \$ - \$ Sgulatory Assets/(Liabilities) (Sch. B-2 Rebuttal Appndx.) Contributions in Aid of Construction 2.00% al Increase/(Decrease) in Depreciation & Amortization Expense - Rebuttal	oublotal General Plant			ı	}	1	φ.	27
Squaron Lyense Duny Train \$ (9,354) \$ (83,551) \$ (1,333) \$ 313 \$ - \$ Squarony Assets/(Liabilities) (Sch. B-2 Rebuttal Appndx.) Contributions in Aid of Construction 2.00% al Increase/(Decrease) in Depreciation & Amortization Expense - Rebuttal	\$ (9,354) \$ (1,333) \$ 313 \$ - \$ Sgulatory Assets/(Liabilities) (Sch. B-2 Rebuttal Appndx.) Contributions in Aid of Construction 2.00% al Increase/(Decrease) in Depreciation & Amortization Expense - Rebuttal	otal Depreciation Expense	1				•	•	į
egulatory Assets/(Liabilities) (Sch. B-2 Rebuttal Appndx.) Contributions in Aid of Construction 2.00% al Increase/(Decrease) in Depreciation & Amortization Expense - Rebuttal	Signatory Assets/(Liabilities) (Sch. B-2 Rebuttal Appndx.) Contributions in Aid of Construction 2.00% al Increase/(Decrease) in Depreciation & Amortization Expense - Rebuttal	or Och coanol Lyberse - Oilly Figure		(9,354)			ļ		
Contributions in Aid of Construction 2.00% al Increase/(Decrease) in Depreciation & Amortization Expense - Rebuttal	Contributions in Aid of Construction 2.00% al Increase/(Decrease) in Depreciation & Amortization Expense - Rebuttal	let Regulatory Assets/(Liabilities) (Sch. B-2 Rebuttal Appndx.)							
55	on Expense - Rebuttal	ess: Contributions in Aid of Construction	2.00%						•
9	on Expense - Rebuttal	Total laconsociOne and a second of the secon							
		। एखा ।।।ऽ'ease/(Decrease) ın Depreciation & Amortization Expense	e - Rebuttal					ļ ss	(1,018
	note 1 Ares 200 Economics								

note_1 Acct. 302 - Franchises amortized over 25 years. Acct. 303 - Other intangibles amortized over 15 & 20 Years.
Acct. 310.4 - Wells - Other amortized over 24 years. Accumulated Amortization booked to Acct. 111 - Amort. Of Ltd. Term Investments. note_2 Acct. 390.1 - Leasehold Improvements amortized over the remaining life of the associated lease.

						Cochise				
			₹	[B]	[0]	[0]	(E)	E	[9]	
				Reput	400		Increase /	Increase /	2	_
				Rate Bace	Rebuildal Pate Baso		(Decrease)		Total	al
-Ine	-		Depreciation	Adjustments	Adjustmosts	Increase /	Phoenix Office			/ es
- E		Infanoible Plant	Rate	Direct Plant	P.T.Y.P.	Depr. Exp.	(3-ractor Alloc.)	(3-factor Alloc.)	(Decrease)	ase)
2	301	Organization	1							L -
ო	302	Franchises	0.00%		•	· \$	· •	€9	€9	,
4	303	Other Intangibles	10(e			•	•	•		,
သ		Subtotal Intangible Plant	300		'		•			
91		onice		9	-		· •	· •	\$	
_ `	310.1		0000							
x (310.3		0.00%			•		•		
n ;	310.4		note 1			•	•	•		,
2 ;	314	Wells	3 13%		í	,	•	•		
= ;		Subtotal Source of Supply Plant		G.						,
77		Pumping Plant		•	•		-	, 69	₩	
<u>.</u>	320	Pumping Plant Land	%00.0							
4 :	321	Pumping Plant Structures & Improvements	2.86%		•		•	•		
<u>د</u> ز	325	Electtric Pumping Equipment	5.88%			1	,	•		
16	328	Gas Engine Equipment	4 00%				•	•		,
17		Subtotal Pumping Plant		4						
28		Water Treatment Plant		•	-	,	, s	· &	₩	
19		Water Treatment Plant Land	%000							
20	331	Water Treatment Structures & Improvements	2,00%		1	t	•	•		
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22		Subtotal Water Treatment Plant	7.80%			,		•		,
23	-	Transmission & Distribution Plant		•	•	,	•	69	69	.
54	340	Transmission and Distribution Land								
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53	346	Meters	2.38%		(83,266.8)	(1,982)	•	•)	(1982)
30	348	Hydrants	4.55%		•	•	•	•		/
31		Subtotal Transmission & Distribution Distribution	1.82%		(15,558.0)	(283)	,	•		(283)
32	g	General Plant		· •	\$ (122,677) \$	(2,692)	\$	69	\$	(2 692)
33	389	General Plant Land								1
35	300	Congress Direct Operations	%00.0			,	•			
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	2000	reaseroud improvements	note_2		٠			•		
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7 5	020	Miscellaneous Equipment	3.33%		•		70	•		701
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4 4 6 4	otal D	l otal Depreciation Expense - Utility Plant	1	69	3 (122,677) \$	(2.692)	\$ 25	6	5	12 613)
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	ess. (Less: Contributions in Aid of Construction								
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23	note	note_1 Acct. 302 - Franchises amortized over 25 vears. Acct. 303 - Other intendition amortized acceptance.	ritional political							
54		Acct. 310.4 - Wells - Other amortized over 24 years Accumulated Av	angibles and like	an over 15 & 20 Year	Irs.					
22	note_	note_2 Acct. 390.1 - Leasehold improvements amortized over the remaining life of the associated lease.	IIIOI lization booke life of the associa	d to Acct. 111 - Am ted lease	ort. Of Ltd. Term Inv	estments.				
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note_1 Acct. 302 - Franchises amortized over 25 years. Acct. 303 - Other intangibles amortized over 15 & 20 Years.
Acct. 310.4 - Wells - Other amortized over 24 years. Accumulated Amortization booked to Acct. 111 - Amort. Of Ltd. Term Investments.
note_2 Acct. 390.1 - Leasehold Improvements amortized over the remaining life of the associated lease.

Exhibit Witness: Reiker

December December	Marcial Plant Marcial Plant Marcial Marcial Plant Marcial Plant 201	Adjustments - PT.Y.P. \$	(Decrease) Phoenix Office (3-factor Alloc.) 0.0164	Decrease)	
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note_1 Acct. 302 - Franchises amortized over 25 years. Acct. 303 - Other intangibles amortized over 15 & 20 Years.
Acct. 310.4 - Wells - Other amortized over 24 years. Accumulated Amortization booked to Acct. 111 - Amort. Of Ltd. Term investments.
note_2 Acct. 390.1 - Leasehold Improvements amortized over the remaining life of the associated lease.

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Exhibit

Schedule C-2 Rebuttal Appendix

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note_1 Acct. 302 - Franchises amortized over 25 years. Acct. 303 - Other intangibles amortized over 15 & 20 Years.
Acct. 310,4 - Wells - Other amortized over 24 years. Accumulated Amortization booked to Acct. 111 - Amort. Of Ltd. Term Investments. note_2 Acct. 390.1 - Leasehold Improvements amortized over the remaining life of the associated lease. $\begin{array}{c} \text{Line} \\ \text{No}$

Supporting Schedules:

Schedule C-2 Rebuttal Appendix Page 13 of 20 Witness: Reiker

Exhibit

Acct. Infangibie Plant Organization 302 Franchises 303 Other Intangibles Source of Supply Plant Source of Supply Plant 310.1 Water Rights Subtotal Source of Supply Land Wells Cumping Plant Land Subtotal Source of Supply Plant Pumping Plant Land Subtotal Pumping Plant Land Subtotal Pumping Plant Land Water Treatment Plant Subtotal Pumping Plant Water Treatment Plant Water Treatment Plant Subtotal Water Treatment Plant Water Treatment Equipment Subtotal Water Treatment Plant Water Treatment Equipment Subtotal Water Treatment Plant Subtotal Water Treatment Plant Transmission & Distribution Plant Transmission & Distribution Plant Transmission & Distribution Mains Here Sprinkler Taps Services	ant overnents orovernents	Depreciation Rate 0.00% note_1 note_1 note_1 3.13% 5.0.00% 0.00% 5.88% 4.00% 5.88% 6.88% 6.88% 6.88% 2.86% 2.86% 2.86% 2.86% 2.86%	Rebuttal Rate Base Adjustments - Direct Plant - \$	Rebuttal Rate Base Adjustments - P.T.Y.P.	νη νη νη νη νη νη νη νη νη νη νη νη νη ν	(Decrease / Depr. Exp.
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l otal Increase/(Decrease) in Depreciation & Amortization Expense - Rehittal	& Amortization Expense - Rebuttal					
					₩	
note_1 Acct, 302 - Franchises amortized over 25 years Acct and Catalon	Acct. 302 - Franchises amortized over 25 years					

N:2011_Rate_Case\Schedules\Eastern Group/2011 AWC Rate Case Model REBUTTAL SCHEDULES AWC EG 03:30.12 900am.xlsx\C2.1 Processing Date: 3/30/2012 11:09 AM Acct. 310.4 - Wells - Other amortized over 24 years. Accumulated Amortization booked to Acct. 111 - Amort. Of Ltd. Term Investments. note_2 Acct. 390.1 - Leasehold Improvements amortized over the remaining life of the associated lease.

ARIZONA WATER COMPANY
Test Year Ended December 31, 2010
Rebuttal income Statement Adjustment IS-7
Adjust Synchronized Interest to Reflect Rebuttal Rate Base Adjustments

	区	Increase / (Decrease) Other Interest Exn		, ,	(3.941)
	[7]	Test Year (I Other Interest - As Filed Inte	<i>.</i>		49 H
	[1]	Increase / (Decrease) Short-Term Interest Exp.	69 6		
	Ξ	Adjusted T.Y. Short-Term Interest -	υ υ υ υ υ υ υ υ υ υ υ υ υ υ υ υ υ υ υ		
Interest	[9]	Synchronized Interest - Short-Term <u>Debt</u>	69 G9		
Eastern Group - Synchronized Interest	E	Weighted Cost of Short- Term Debt <u>Sch. D-1</u>	%00.0 %00.0 %00.0	· •	
Eastern Gro	(E)	Increase / (Decrease) Long-Term Interest Exp.	\$ (4,771) (4,188) (67) (67) 931 4,189 (16) (16)	\$ (3,941)	
	[0]	Adjusted T.Y. Long-Term Interest - As Filed	\$ 1,692,249 \$ 286,114 67,481 82,653 (4,169) 10,268 \$ 2,134,597 \$	1 1	
	[0]	Synchronized Interest - Long-Term	\$ 1,687,478 281,927 67,414 83,584 10,262 \$ 2,130,656	\$ 2,130,656	
	<u>@</u>	Weighted Cost of Long- Term Debt Sch. D-1	5. 35% 5. 35% 5. 35% 5. 35% 5. 35% 5. 35%	197	
	[\]	Rebuttal Orig. Cost Rate Base <u>Sch. B-1 Ln. 23</u>	\$ 50,432,117 8,425,690 2,014,751 2,497,996 306,390 \$ 63,676,945	\$ 63,676,945	
		System	Eastern Group Superstition Cochise San Manuel Oracle SaddleBrooke Ranch Winkelman Subtotal	Total	Increase/(Decrease) in Expenses
		e ol	1 6 4 7 9 0 5 5 4 3 1 H		4 t t t t t t t t t t t t t t t t t t t

WATER COMPANY	Test Year Ended December 31, 2010	Rebuttal income Statement Adjustment IS-8	v Taxes
ARIZONA WATER COMPANY	est Year Ended Decen	ebuttal income Statem	Adjust Property Taxes

		Superstition	Cochise	San Manuel
ine		(A) (B) (B) Adjusted -		
<u>8</u> –		≤ I	Rebuttal W/Increase	Rebuttal w/ Increase
. U to 4 to	Adjusted Revenues - Rebuttal Adjusted Revenues - Rebuttal Adjusted Revenues - Rebuttal / Proposed Revenues	\$ 15,056,166 \$ 15,056,166 15,056,166 15,056,166 15,056,166 18,983,549	\$ 3,303,549 \$ 3,303,549 3,303,549 3,303,549 3,303,549 4,008,556	\$ 947,528 \$ 947,528 947,538 947,528 947,528 1,223,565
9 6	Average Revenue	\$ 15,056,166 \$ 16,365,294	\$ 3,303,549 \$ 3,538,551	\$ 947,528 \$ 1,039,540
- & Ø	Average Revenue Multiplied by 2	\$ 30,112,332 \$ 32,730,588	\$ 6,607,098 \$ 7,077,103	\$ 1,895,056 \$ 2,079,080
5 1 2 2 3				
4 £ £ £	Deduct: Net Book Value of Transportation Equipment		s9-	φ. •
8 to 5	Full Cash Value	\$ 30,112,332 \$ 32,730,588	\$ 6,607,098 \$ 7,077,103	\$ 1,895,056 \$ 2,079,080
2 7 8	Assessment Ratio	21.0% 21.0%	21.0% 21.0%	21.0% 21.0%
2 2 2	Assessed Value	6,323,590 6,873,423	1,387,491 1,486,192	397,962 436,607
52 22	Property Tax Rate¹	13.40% 13.40%	10.17% 10.17%	12.37% 12.37%
27 28	Property Tax	847,648 921,351	141,051 151,085	49,211 53,990
2 2 5	Tax on Parcels		•	•
3 33 8	Total Property Taxes - Calculated	\$ 847,648 \$ 921,351	\$ 141,051 \$ 151,085	\$ 49,211 \$ 53,990
33.5	Adjusted Property Taxes - As filed	747,264	137,972	48,221
35 %	Increase / (Decrease) in Property Taxes - Rebuttal	\$ 100,384	\$ 3,079	066 \$
37	Adjusted Property Taxes - Rebuttal	847,648	141,051	49,211
888	Inc. / (Dec.) in Property Taxes at Proposed Rates - Rebuttal	\$ 73,703	\$ 10,034	\$ 4,779
5 4 4 4 4 4 4 4 4 4 6 5 5 5 5 5 5 5 5 5	As % of Change in Revenue Requirement 1-Property Tax rates updated to reflect current known & measurable rates.	1.88%	1.42%	1.73%

		Oracle		SaddieBrooke Ranch	Ranch		Winkelman	_
No Line		[A] [B] Adjusted - T.Y. Adjstd' - Rebuttal Rebuttal w/ Increase	l]	[C] T.Y. Adjstd' - Rebuttal	[D] Adjusted - Rebuttal <u>w/ Increase</u>) 	(E) T.Y. Adjstd' - Rebuttal	[F] Adjusted - Rebuttal w/ Increase
- 0 w 4 r	Adjusted Revenues - Rebuttal Adjusted Revenues - Rebuttal Adjusted Revenues - Rebuttal / Proposed Revenues	\$ 990,109 \$ 990,109 \$ 9 990,109 1,1	990,109 990,109 1,120,928	\$ 117,103 \$ 117,103 \$ 117,103	117,103 117,103 244,673	↔	102,098 \$ 102,098 102,098	102,098 102,098 133,953
9 6	Average Revenue	\$ 990,109 \$ 1,0	1,033,715	\$ 117,103 \$	159,626	\$	102,098 \$	112,716
9 6 7 7 7 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1	Average Revenue Multiplied by 2	\$ 1,980,218 \$ 2,0	2,067,431	\$ 234,205 \$	319,252	↔	204,196 \$	225,433
4 2	Deduct: Net Book Value of Transportation Equipment	υ· •		\$ - \$,	နှ		
8 t 5	Full Cash Value	\$ 1,980,218 \$ 2,0	2,067,431	\$ 234,205 \$	319,252	€9	204,196 \$	225,433
3 2 8	Assessment Ratio	21.0%	21.0%	21.0%	21.0%		21.0%	21.0%
2 23 23	Assessed Value	415,846 4	434,160	49,183	67,043		42,881	47,341
52 26	Property Tax Rate¹	10.30%	10.30%	10.30%	10.30%		20.78%	20.78%
22 28	Property Tax	42,848	44,735	5,068	6,908		8,910	9,837
3 29 2	Tax on Parcels	•	ı	1	•		t	•
3 33 83	Total Property Taxes - Calculated	\$ 42,848 \$	44,735	\$ 5,068 \$	806'9	₩.	8,910 \$	9,837
8 8 8	Adjusted Property Taxes - As filed	39,795		5,275			8,104	
33.3	Increase / (Decrease) in Property Taxes - Rebuttal	\$ 3,053		\$ (207)		€9	806	
37	Adjusted Property Taxes - Rebuttal		42,848		5,068			8,910
8 8 8	Inc. / (Dec.) in Property Taxes at Proposed Rates - Rebuttal	မှ	1,887	φ	1,840		S	927
0 1 4 4 4 4 4 4 7 8 8 8 8 8 8 8 8 8 8 8 8 8	As % of Change in Revenue Requirement 'Property Tax rates updated to reflect current known & measurable rates.		1.44%		1.44%			2.91%

¹Property Tax rates updated to reflect current known & measurable rates.

		Fastern Groun	בייניייי כייסיי

	Eastern Group
	[A] [B]
Line <u>No.</u> 1	T.Y. Adjsto' - Rebuttal <u>Rebuttal</u> w/ Increase
Adjusted Revenues - Rebuttal Adjusted Revenues - Rebuttal Adjusted Revenues - Rebuttal / Proposed Revenues	\$ 20,516,553 \$ 20,516,553 20,516,553 20,516,553 20,516,553 25,715,224
6 Average Revenue	\$ 20,516,553 \$ 22,249,443
Average Revenue Multiplied by 2	\$ 41,033,106 \$ 44,498,887
10 11 13	
14 15 Deduct: 16 Net Book Value of Transportation Equipment 17	9
18 19 Full Cash Vatue	\$ 41,033,106 \$ 44,498,887
20 21 Assessment Ratio	21.0% 21.0%
22 22 Assessed Value	8,616,952 9,344,766
25 Property Tax Rate¹	12.70% 12.71%
27 Property Tax	1,094,736 1,187,906
29 Tax on Parcels	
31 Total Property Taxes - Calculated	\$ 1,094,736 \$ 1,187,906
33 33 Adjusted Property Taxes - As filed	986,631
of Increase / (Decrease) in Property Taxes - Rebuttal	\$ 108,105
35 37 Adjusted Property Taxes - Rebuttal	1,094,736
on Inc. / (Dec.) in Property Taxes at Proposed Rates - Rebuttal	\$ 93,169
4u 41 As % of Change in Revenue Requirement 42	1.79%
43 45 45	
47 48 49 50	
54 ¹Property Tax rates updated to reflect current 55 known & measurable rates.	

¹Property Tax rates updated to reflect current known & measurable rates.

ARIZONA WATER COMPANY
Test Year Ended December 31, 2010
Rebuttal Income Statement Adjustment IS-9
Adjust Income Taxes to Reflect Adjusted Test Year Results & Proposed Revenues

San Manuel [E] [F] Adjusted - Rebuttal Rebuttal W Increase	\$ 5,226 \$ 276,484 67,414 67,414 \$ (62,189) \$ 209,070 \$ (4,333) \$ 14,568	÷ ÷	(1961)	\$ (19,671) \$ 66,131	\$ (24,004) \$ 80,699 38.60% 38.60%		\$ (49,612) 29,941 \$ (10,929)	\$ (19,671) \$ (85,801) \$ (4,333) \$ 18,901
Cochise (D) Adjusted - Rebuttal Rebuttal w/ Increase	\$ 461,283 \$ 1,156,256 281,927 281,927 \$ 179,356 \$ 874,329 \$ 12,498 \$ 60,923	\$ 179,356 \$ 874,329 12,498 60,923 \$ 166,859 \$ 813,406	56,732 276,558	\$ 56,732 \$ 276,558	\$ 69,230 \$ 337,481 38,60% 38,60%	6.97% 6.97% 31.63% 31.63%	\$ 52,012 4,720 \$ 11,458	\$ 56,732 \$ 219,826 \$ 12,498 \$ 48,426
Superstition [A] [B] Adjusted - T.Y. Adjusted - Rebuttal Rebuttal w/ Increase	\$ 3,067,112 \$ 6,920,792 1,687,478 1,687,478 \$ 1,379,633 \$ 5,233,314 \$ 96,133 \$ 364,657	\$ 1,379,633 \$ 5,233,314 96,133 364,657 \$ 1,283,500 \$ 4,888,656		\$ 436,390 \$ 1,655,343	\$ 532,523 \$ 2,020,000 38.60% 38.60%	6.97% 6.97% 31.63% 31.63%	\$ 448,513 \$ (12,123) \$ 98,803	\$ (2,671) \$ 436,390 \$ 1,218,953 \$ 96,133 \$ 268,524
9 - 7	Operating Income Before Inc. Taxes Interest Expense Arizona Taxable Income (Ln. 3 + Ln. 4) Less Arizona Income Tax (Ln. 5 X Ln. 7)	Federal Income Before Taxes (Ln. 5) Less Arizona Income Taxes (Ln. 7) Federal Taxable Income (Ln. 10 - Ln. 11)	Federal Income Taxes: 15% Bracket from \$1 to \$50,000 25% Bracket from \$50,001 to \$75,000 34% Bracket from \$55,001 to \$100,000 39% Bracket from \$100,001 to \$135,000 34% Bracket from \$135,000	Federal Income Taxes:	Total Income Tax (Ln. 11 + Ln. 21) Tax Rate (Ln. 24 + Ln. 5)	Effective Income Tax Rates State (Ln. 7 + Ln. 5) Federal (Ln. 21 + Ln. 5)	Test Year Federal Income Taxes - As Filed (Sch. C-2, Ln. 30) Increase / (Decrease) in Federal Income Taxes (Ln. 21 - Ln. 33) Test Year State Income Taxes - As filed (Sch. C-2, Ln. 31) Increase / (Decrease) in State Income	Increase (Uecrease) in State income Taxes (Ln. 11 - Ln. 36) Test Year Federal Income Taxes - Rebuttal Increase / (Decrease) in Federal Income Taxes (Ln. 21 - Ln. 39) Test Year State Income Taxes - Rebuttal Increase / (Decrease) in State Income Taxes (Ln. 11 - Ln. 42)

 $\begin{array}{c} \text{Line} \\ \frac{1}{1} \\$

ARIZONA WATER COMPANY
Test Year Ended December 31, 2010
Rebuttal Income Statement Adjustment IS-9 (continued)
Adjust Income Taxes to Reflect Adjusted Test Year Results & Proposed Revenues

Winkelman [E] [F] Adjusted - T.Y. Adjusted - Rebuttal Rebuttal WI Increase	\$ 11,118 \$ 42,046 10,252 10,252 \$ 866 \$ 31,794 \$ 60 \$ 2,215	\$ 866 \$ 31,794 60 2,215 \$ 806 \$ 29,579	274 10,057	\$ 274 \$ 10,057	\$ 334 \$ 12,272 38.60% 38.60%	6.97% 6.97% 31.63% 31.63%	\$ 445 \$ (171) \$ 98	\$ 274 \$ 9,783 \$ 5,155
SaddleBrooke Ranch [C] [D] Adjusted - T.Y. Adjusted - Rebuttal Rebuttal w/ Increase	\$ (125,730) \$ (0) \$ (125,730) \$ (0) \$ (8,761) \$ (0)	\$ (125,730) \$ (0) (8,761) (0) \$ (116,969) \$ (0)	(39,770)	(0) \$ (02,770) \$	\$ (48,530) \$ (0) 38,60% 38,60%	6.97% 6.97% 31.63% 31.63%	\$ (38,543) \$ (1,226) \$ (8,491)	\$ (39,770) \$ 39,770 \$ (8,761) \$ 8,761
Oracle [A] [B] Adjusted - T.Y. Adjusted - Rebuttal Rebuttal w/ Increase	\$ 213,867 \$ 342,800 83,584 83,584 \$ 130,284 \$ 259,216 \$ 9,078 \$ 18,062	\$ 130,284 \$ 259,216 9,078 18,062 \$ 121,205 \$ 241,154	41,210 81,992	\$ 41,210 \$ 81,992	\$ 50,288 \$ 100,054 38.60% 38.60%	6.97% 6.97% 31.63% 31.63%	\$ 41,571 \$ (361) \$ 9,158	
	Operating Income Before Inc. Taxes Interest Expense Arizona Taxable Income (Ln. 3 + Ln. 4) Less Arizona Income Tax (Ln. 5 X Ln. 7) Arizona Income Tax Rate = 6.968%	Federal Income Before Taxes (Ln. 5) Less Arizona Income Taxes (Ln. 7) Federal Taxable Income (Ln. 10 - Ln. 11)	Federal Income Taxes: 15% Bracket from \$1 to \$50,000 25% Bracket from \$50,001 to \$75,000 34% Bracket from \$75,001 to \$100,000 39% Bracket from \$100,001 to \$335,000 34% Bracket over \$335,000	Federal Income Taxes:	Total Income Tax (Ln. 11 + Ln. 21) Tax Rate (Ln. 24 + Ln. 5)	Effective Income Tax Rates State (Ln. 7 + Ln. 5) Federal (Ln. 21 + Ln. 5)	Test Year Federal Income Taxes - As Filed (Sch. C-2, Ln. 30) Increase / (Decrease) in Federal Income Taxes (Ln. 21 - Ln. 33) Test Year State Income Taxes - As filed (Sch. C-2, Ln. 31) Increase / (Decrease) in State Income Taxes (In. 11 - In. 38)	Test Year Federal Income Taxes - Rebuttal Increase / (Decrease) in Federal Income Taxes (Ln. 21 - Ln. 39) Test Year State Income Taxes - Rebuttal Increase / (Decrease) in State Income Taxes (Ln. 11 - Ln. 42)

 $\begin{array}{c} \text{Line} \\ \text{NN} \\ \text{No}$

Exhibit
Schedule C-2 Rebuttal Appendix
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ARIZONA WATER COMPANY Test Year Ended December 31, 2010 Rebuttal Income Statement Adjustment IS-9 (continued)

Adjust Income Taxes to Reflect Adjusted Test Year Results & Proposed Revenues		
axes to Reflect Adjusted Test Year Results &	d Revenues	
axes to Reflect Adjusted Test Year Res	ళ	
axes to Reflect Adjusted Test Y	Ses	
axes to	t Year	
axes to	Adjusted 1	
axes	Reflect	
Adjust Income	S	
Adjust	Income	
	Adjust	

Eastern Group [A] [B] Adjusted - T.Y. Adjusted - Rebuttal Rebuttal	\$ 3,632,876 \$ 8,738,378 2,130,656 2,130,656 \$ 1,502,220 \$ 6,607,722	\$ 104,675 \$ 460,426	\$ 1,502,220 \$ 6,607,722 104,675 460,426 \$ 1,397,546 \$ 6,147,296	475,165 2,090,081	\$ 475,165 \$ 2,090,081	\$ 579,840 \$ 2,550,507	38.60% 38.60%	6.97% 6.97% 31.63% 31.63%	\$ 100,097 \$ 4,578	\$ 475,165 \$ 1,614,915	\$ 104.675 \$ 355,751	
Line No.	Operating Income Before Inc. Taxes interest Expense Arizona Taxable Income (Ln. 3 + Ln. 4)	7 Less Arizona Income Tax (Ln. 5 X Ln. 7) 8 Arizona Income Tax Rate = 6.968%	10 Federal Income Before Taxes (Ln. 5) 11 Less Arizona Income Taxes (Ln. 7) 12 Federal Taxable Income (Ln. 10 - Ln. 11)	13 Federal Income Taxes: 14 Federal Income Taxes: 15 45% Bracket from \$1 to \$50,000 16 25% Bracket from \$50,001 to \$75,000 17 34% Bracket from \$75,001 to \$100,000 18 39% Bracket from \$100,001 to \$335,000 19 34% Bracket over \$335,000	22 Federal Income Taxes: 22	23 24 Total Income Tax (Ln. 11 + Ln. 21) 25	26 Tax Rate (Ln. 24 + Ln. 5) 27	28 Effective Income Tax Rates 29 State (Ln. 7 + Ln. 5) 30 Federal (Ln. 21 + Ln. 5) 31		 Test Year Federal Income Taxes - Rebuttal Increase / (Decrease) in Federal Income Taxes (Ln. 21 - Ln. 39) 	 42 Test Year State Income Taxes - Rebuttal 43 Increase / (Decrease) in State Income Taxes (Ln. 11 - Ln. 42) 44 	45 46 48 50 51 53 54 55

Exhibit
Schedule C-3 Rebuttal
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Witness: Reiker

Pescription Federal Income Taxes State Income Taxes Total Federal & State Income Tax Percentage Operating Income % = 100% - Tax Percentage Property Tax Factor (Sch. C-2 Appdx.) Effective Property Tax Factor (Ln. 8 x Ln. 10) Combined Federal & State Income & Property Tax Rate Operating Income % = 100% - Tax Percentage 1 Gross Revenue Conversion Factor 1 Gross Revenue Conversion Factor	Eastern Group [A]	Percentage of Incremental Gross Revenues	31.63%	6.97%	38.60%	61.40%	1.79%	1.10%	39.70%	%05.30%	1.6584
Description of the control of the co		Description	Federal Income Taxes State Income Taxes	לימים וויכטוום ומאפט	l otal Federal & State Income Tax Percentage	Operating Income % = 100% - Tax Percentage	Property Tax Factor (Sch. C-2 Appdx.)	Effective Property Tax Factor (Ln. 8 x Ln. 10)	Combined Federal & State Income & Property Tax Rate	Operating Income % = 100% - Tax Percentage	income %

ARIZONA WATER COMPANY
Test Year Ended December 31, 2010
Computation of Gross Revenue Conversion Factor

Exhibit
Schedule C-3 Rebuttal
Page 2 of 7
Witness: Reiker

Superstition (Apache Juntion, Superior, Miami) [A]	Percentage of Incremental Gross Revenues	31.63%	6.97%	38.60%	61.40%	1.88%	1.15%	39.75%	60.25%	1.0598	
Test Year Ended December 31, 2010 Computation of Gross Revenue Conversion Factor	Line <u>No. Description</u> 1	2 Federal Income Taxes ત	4 State income Taxes 5	6 Total Federal & State Income Tax Percentage) Operating Income % = 100% - Tax Percentage	10 Property Tax Factor (Sch. C-2 Appdx.)	12 Effective Property Tax Factor (Ln. 8 x Ln. 10) 13	Combined Federal & State Income & Property Tax Rate	Operating Income % = 100% - Tax Percentage	18 19 20 21 22 23 24 25 25 26 27 28 39 39 39 40 41 42 44 44 44 45 55 55 55 55	55

Recap Schedules: A-1 Rebuttal

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Schedule C-3 Rebuttal
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Witness: Reiker

sion Facto ARIZONA WATER COMPANY Test Year Ended December 31, 2010 Computation of Gross Revenue Conversi

Cochise (Bisbee, Sierra Vista) [A]	Incremental Gross Revenues	31.63%	6.97%	38.60%	61.40%	1.42%	0.87%	39.47%	%60.53%		1.6521																				
Computation of Gross Revenue Conversion Factor	Line <u>No. Description</u>	1 2 Federal Income Taxes	5 State Income Taxes	5 Total Federal & State Income Tax Percentage	/ Operating Income % = 100% - Tax Percentage	9 10 Property Tax Factor (Sch. C-2 Appdx.)	11 Effective Property Tax Factor (Ln. 8 x Ln. 10)	13 Combined Federal & State Income & Property Tax Rate	Operating Income % = 100% - Tax Percentage	18 19 20 24	23 Operating Income %	25 25	26	2/ 28	29	31	32 33	34	35 36	37	8,68	40	4! 42	43	45	46 47	48	50	51 52	53 54	55

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Schedule C-3 Rebuttal
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San Manuel [A]	Percentage of Incremental Gross Revenues	31.63%	6.97%	38.60%	61.40%	1.73%	1.06%	39.66%	60.34%	1.6573
	Description 9	Federal Income Taxes	State Income Taxes	Total Federal & State Income Tax Percentage	Operating Income % = 100% - Tax Percentage	Property Tax Factor (Sch. C-2 Appdx.)	Effective Property Tax Factor (Ln. 8 x Ln. 10)	Combined Federal & State Income & Property Tax Rate	Operating Income % = 100% - Tax Percentage	Genoss Revenue Conversion Factor Operating Income %
	Line No.	- 01 0	o 4 n	9 6	- 00 0	, e ;	- 22 5	<u> </u>	5 2 7	$\begin{smallmatrix} 6 & 1 & 2 & 2 & 2 & 2 & 2 & 2 & 2 & 2 & 2$

N:2011_Rate_Case\Schedules\Eastern Group\zo11 AWC Rate Case Model REBUTTAL SCHEDULES AWC EG 03.30.12 900am.xisx\C3 Processing Date: 3/30/2012 11:09 AM

Oracle [A]	Percentage of Incremental Gross Revenues	31.63%	%26'9	38.60%	61.40%	1.44%	%68'0	39.48%	60.52%	1.6525
	Description	Federal Income Taxes	State Income Taxes	Total Federal & State Income Tax Percentage	Operating Income % = 100% - Tax Percentage	Property Tax Factor (Sch. C-2 Appdx.)	Effective Property Tax Factor (Ln. 8 x Ln. 10)	Combined Federal & State Income & Property Tax Rate	Operating Income % = 100% - Tax Percentage	Operating Income % Gross Revenue Conversion Factor
	를 위-	- 0 0	04	ο φ r	- 00 0	» 6 5	- + +		19 17 18 18 19 19 19 19 19 19 19 19 19 19 19 19 19	$\begin{smallmatrix} 2 & 2 & 2 & 2 & 2 & 2 & 2 & 2 & 2 & 2 $

Winkelman [A]

A	
[©] 9	54 'Allocated based on 55 3-factor methodology

		•	Ξ				
	a	Adjstd' Total - <u>Rebuttal</u>	Residential	Commercial	Industrial	Other	Direct Private Fire
Operating Revenues Water Revenues (Sch. H-1) Miscellaneous Revenues¹ (Sch. H-1)	69	19,717,550 \$ 799,406	15,371,629 \$	3,890,028 \$ 149,475	76,580 \$ 3,646	310,817 \$	68,497
Total Operating Revenues	69	20,516,956 \$	16,004,752 \$	4	80,226 \$	321,159 \$	71,317
Operating Expenses Operations & Maintenance Expense		11,964,006	10,010,679	1,791,757	33,869	127,524	177
Depreciation & Amortization Expense		3,567,635	3,005,439	489,539	7,276	37,166	28,214
Property Taxes		5/9,840 1,094,736	45,542 856.905	468,457 213 298	11,216 4.568	44,502	10,123
Other Taxes		257,300	215,902	38,051	707	2,636	4
Total Operating Expenses	₩	17,463,517 \$	14,134,467 \$	3,001,104 \$	\$ 929'25	228,013 \$	42,298
Taxable Income		1,506,505	121,929	1,213,834	29,059	115,268	26,415
Net Operating income	မာ	3,053,439 \$	1,870,285 \$	1,038,400 \$	22,590 \$	93,145 \$	29,019
Interest Expense		2,126,774	1,793,898	293,023	4,746	22,380	12,727
Rate Base	69	63,560,931 \$	53,612,578 \$	\$ 606'252'8	141,851 \$	668,836 \$	380,357
Rate of Return (Ln. 17 + Ln. 23)		4.80%	3.49%	11.86%	15.93%	13.93%	7.63%
Required Rate of Return (Sch. A-1, Ln. 12)		9.72%	9.72%	9.72%	9.72%	9.72%	9.72%
Required Operating Income (Ln. 23 X Ln. 27)	€	6,176,597 \$	5,209,856 \$	851,000 \$	13,785 \$	64,995 \$	36,962
Operating Income Deficiency (Ln. 29 - Ln. 17)	€7	3,123,159 \$	3,339,571 \$	(187,399) \$	\$ (908'8)	(28,151) \$	7,942
Additional Taxes at Proposed Rates (Sch. G-4, Lns. 42 + 48 - 18 + 24)	↔	2,063,836 \$	1,648,042 \$	381,022 \$	3,729 \$	\$ 29,786 \$	2,756
Required Increase in Gross Revenues (Ln. 31 + Ln. 34)	49	5,188,493 \$	4,987,613 \$	193,622 \$	\$ (2,077)	1,635 \$	10,698
% Required Increase in Gross Revenues (Ln. 36 + Ln. 5)		25.29%	31.16%	4.79%	-6.33%	0.51%	15.00%
Gross Revenue Requirement (Ln. 5 + Ln. 36)	€9	25,705,449 \$	20,992,365 \$	4,233,126 \$	75,149 \$	322,794 \$	82,015
Less: Miscellaneous Revenues at Proposed Rates	€>	(975,534) \$	\$ (615,579)	(180,055) \$	(3,868) \$	(13,081) \$	(2,951)
Revenue Requirement - Metered Water Revenues	69	24,729,915 \$	20,216,786 \$	4,053,071 \$	71,282 \$	309,713 \$	79,064
% of Revenues Required from Fixed Charge % of Revenues Required from Commodity Charge		48% 52%	50% 50%	39% 61%	32% 68%	38% 62%	100%
'Allocated to customer classes based on							

percentage of total water revenues

Unit of this between contractive contractive cost of Service Monthly Living Service cost of Service cost of Service Monthly Living Service cost of Se	Unit Total Units Cost of Service Cost per Unit Residential Units of Service Cost of Service Cost of Service	O S	88 88 88 88 89 89 89 89 89 89 89 89 89 8	Demand		Direct Drivate Fire	Total Cost		20 200	Copies
M Gal A2688 A2663 B11 A18 A18 B11 A18 A18 B11 A18 A18 B11 A18	Unit Total Units Cost of Service Cost per Unit Residential Units of Service Cost of Service Cost of Service Cost of Service	2	2,888 8,085 1.69 \$		Customer	2 - 200	of service	国	Monthly ixed 5/8"	Commo Per M (
Service \$ 2,779,660 35,590 379,032 n/a \$ 20,990,979 \$ 26.19 Service \$ 4,610,365 \$ 11,601,263 \$ 4,779,351 n/a \$ 20,990,979 \$ 26.19 \$ 26.19 Service \$ 1,390,689 \$ 2,388,098 \$ 454,289 n/a \$ 4,233,076 \$ 38.82 \$ 38.8	Residential Units of Service Cost of Service Commercial Units of Service Cost of Service		000	63 77 29		n/a 81,944 n/a	25,703,951			
recial list of Service \$ 1,390,689 \$ 2,388,098 \$ 454,289	Commercial Units of Service Cost of Service				379,032 4,779,351		20,990,979	₩		
tis of Service 15 20,509 90 144 n/a \$ 75,149 \$ 56.85 \$ st of Service 15 33,485 \$ 35,868 \$ 5,796 n/a \$ 75,149 \$ 56.85 \$ st of Service 53,210 515 368 n/a \$ 322,802 \$ \$ 83.68 \$ st of Service 103,546 \$ 194,247 \$ 25,009 n/a \$ 81,944 \$ 81,944 \$ \$ 81,944 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$					19,380 454,289		4,233,076	6		
tts of Service 53,210 515 368 n/a \$ 322,802 \$ 83.68 \$ tid Service \$ 103,546 \$ 194,247 \$ 25,009 n/a \$ 322,802 \$ 83.68 \$ Private Fire n/a n/a \$ 81,944 \$ 81,944	Industrial Units of Service Cost of Service				144 5,796		75,149	↔		
i n/a \$ 81,944 \$	Other Units of Service Cost of Service				368 25,009		322,802	क		
	Direct Private Fire Cost of Service		n/a	ה/מ		81,944	81,944			
Total System Cost of Service \$ 6,138,085 \$ 14,219,477 \$ 5,264,445 \$ 81,944 \$ 25,703,951	Total System Cost of Service		- 1 3			81,944	25,703,951			

51,194 2,592 53,786

Direct Private Fire E

110 19,278 8,831 3,028

22,886

31,250

8,481

253,449 8.89%

Adjatat Total - Rebuttal Reutes 1,1 1,26t. H-1) 1,26t. H-1) 1,26t. H-1) 1,26t. H-1) 1,26t. H-1) 1,26t. H-1) 1,26t. H-1) 1,26t. H-1) 1,26t. H-1) 1,26t. H-1) 1,26t. H-1) 1,26t. H-1) 1,26t. H-1) 1,26t. H-1) 1,26t. H-1) 1,26t. H-1) 1,26t. H-24 1,26t. H-25 1,26t. H-26 1,26t.	Comm 2	
Sch. H-1) St. 14,331,107 \$ 11,436,957 enues (Sch. H-1) g Revenues g Revenues g Revenues g Revenues 1,705,456 12,015,908 1,707,489 1,707,489 1,707,489 1,707,489 1,707,489 1,707,489 1,707,489 1,707,489 1,707,489 1,707,489 1,707,489 1,707,489 1,707,489 1,707,489 1,707,489 1,707,489 1,707,489 1,707,777 1,380,030 1,687,478 1,437,493 1,286,070 1,067,384 1,687,478 1,437,493 1,296,070 1,067,384 1,196,070 1,067,384 1,196,070 1,067,384 1,196,070 1,067,384 1,196,070 1,067,384 1,196,070 1,067,384 1,196,070 1,067,384 1,196,070 1,067,384 1,196,070 1,067,394 1,196,070 1,067,394 1,196,070 1,1	2,606,590 131,948 2,738,538 1,134,948	Industrial
### Seturn (Sch. A-1, Ln. 23) ### Seturn (Sch. A-1, Ln. 27) ### Gross Revenues #### Gross Revenues #### Gross Revenues #### Gross Revenues #### Gross Revenues #### Gross Revenues ##### Gross Revenues ###################################	2,738,538	
State Stat	1,134,948	
9 Expenses 2, 671, 695 7, 100, 338 7, 100, 338 1, 100, 338 1, 100, 338 1, 100, 338 1, 100, 338 1, 100, 338 1, 100, 327, 777 1, 380, 030 408, 133 1, 100, 327, 777 1, 380, 030 408, 133 1, 100, 327, 777 1, 100, 030 1, 100, 1327, 777 1, 100, 030 1, 100, 1327, 777 1, 100, 030 1, 100, 1327, 138 1, 100, 1327, 138 1, 100, 1327, 138 1, 100, 1327, 138 1, 100, 1327, 138 1, 100, 1327, 138 1, 100, 1327, 138 1, 100, 1327, 138 1, 100, 138 1	1.134.948	
### S22,523 157,488 ### 676,486 ### 676,48	232 723	
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## Section ## Section ## ## Section ##	154,173	
\$ 2,534,985 \$ 1,688,136 1,7 + Ln. 23) \$ 50,432,117 \$ 42,961,020 \$ 50,432,117 \$ 42,961,020 \$ 50,432,117 \$ 42,961,020 \$ 50,432,117 \$ 42,961,020 \$ 6,03% \$ 3,93% \$ 1,661,180 \$ 1,296,070 In Gross Revenues (Ln. 34 + 24) In Gross Revenues (Ln. 36 + Ln. 5) In Gross Revenues (Ln. 36 + Ln. 5) In Gross Revenues (Ln. 36 + Ln. 5) In Gross Revenues (Ln. 36 + Ln. 5) In Gross Revenues (Ln. 36 + Ln. 5) In Gross Revenues (Ln. 36 + Ln. 5) In Gross Revenues at Proposed Rates \$ 18,983,549 \$ 15,798,622 Inferment - Metered Water Revenues \$ 18,125,999 \$ 15,108,794	23,314 \$ 1,981,987 \$	i e
\$ 2,534,985 \$ 1,688,136 1,687,478	872,889	
\$ 50,432,117 \$ 1,437,493 Ln. 23) Scal. A-1, Ln. 12) Scal. A-1, Ln. 12) Scal. B-12% Scal. B-	\$ 756,552 \$	
\$ 50,432,117 \$ 42,961,020 Ln. 23) 5.03% 9.72% 9.72% me (Ln. 23 X Ln. 27) \$ 4,900,792 \$ 4,174,780 ency (Ln. 29 - Ln. 17) \$ 2,365,806 \$ 2,486,644 osed Rates 48 - 18 + 24) ss Revenues (Ln. 31 + Ln. 34) \$ 3,926,987 \$ 3,782,714 26.08% 1,561,180 \$ 15,798,622 Revenues at Proposed Rates \$ 18,983,549 \$ 15,798,622 Revenues at Proposed Rates \$ 18,125,999 \$ 15,108,794	220,491	
(Sch. A-1, Ln. 12) 9,72% me (Ln. 23 X Ln. 27) s	\$ 6,589,625 \$	
(Sch. A-1, Ln. 12) s 4,900,792 \$ 4,174,780 ency (Ln. 23 X Ln. 27) s 2,365,806 \$ 2,486,644 seed Rates 48 - 18 + 24) strong Revenues (Ln. 31 + Ln. 34) strong Revenues (Ln. 36 + Ln. 5) strong Revenues at Proposed Rates 1, 61,125,999 \$ 15,798,622 1, 61,108,794	11.48%	
s 4,900,792 \$ 4,174,780 ency (Ln. 29 - Ln. 17) \$ 2,365,806 \$ 2,486,644 osed Rates \$ 1,561,180 \$ 1,296,070 ss Revenues (Ln. 31 + Ln. 34) \$ 3,926,987 \$ 3,782,714 stork (Ln. 5 + Ln. 36) \$ 18,983,549 \$ 15,798,622 Revenues at Proposed Rates \$ (857,550) \$ (869,828) nt - Metered Water Revenues \$ 18,125,999 \$ 15,108,794	9.72%	
seed Rates 48 - 18 + 24) 5	\$ 640,353 \$	
Seed Rates \$ 1,561,180 \$ 1,296,070 A8 - 18 + 24) \$ 3,926,987 \$ 3,782,714 Stross Revenues (Ln. 36 + Ln. 5) 26.08% 31.48% Stross Revenues (Ln. 36 + Ln. 5) \$ 18,983,549 \$ 15,798,622 Revenues at Proposed Rates \$ (857,550) \$ (689,828) It - Metered Water Revenues \$ 18,125,999 \$ 15,108,794	\$ (116,199) \$	
\$ 3,926,987 \$ 3,782,714 3ross Revenues (Ln. 36 + Ln. 5) 2ross Revenues (Ln. 36 + Ln. 5) 3ross Revenues (Ln. 5 + Ln. 36) 3ross 7148%	\$ 240,802 \$	
31.48% shots Revenues (Ln. 36 + Ln. 5) \$ 18,983,549 \$ 15,798,622	\$ 124,604 \$	
rent (Ln. 5 + Ln. 36)	4.55%	
Revenues at Proposed Rates \$ (857,550) \$ (689,828) at - Metered Water Revenues \$ 18,125,999 \$ 15,108,794	\$ 2,863,142 \$	
nt - Metered Water Revenues \$ 18,125,999 \$ 15,108,794	\$ (151,279) \$	
	\$ 2,711,864 \$	
% of revenues required from 13xed Charge		30%
from Commodity Charge 52%	61%	Š Š

9.72%

24,629

2,094

6.07%

57,050 (2,584)

1,171 3,265 54,466

100% 0%

¹Allocated to customer classes based on percentage of total water revenues 55

ARIZONA WATER COMPANY Test Year Ended December 31, 2010 Cost Distribution to Customer Classes

			Ţ.	Ξ	<u> </u>	<u>.</u>		[F]	<u>[6</u>]
	S	Commodity	Demand	Customer	Direct <u>Private Fire</u>	Total Cost of Service		Monthly Comr	Commodity Per M Gal
Unit Total Units Cost of Service Cost per Unit	↔ •	M Gal 2,649,324 4,459,700 \$ 1.68 \$	equiv. meter 31,088 10,724,211 \$	bill 283,644 3,742,588 \$ 13.19	n/a \$7,050 \$ n/a	18,983,549			
Residential Units of Service Cost of Service	₩	2,075,778 3,440,320 \$	26,348 8,911,313 \$	271,896 3,446,989	η/a \$	15.798,622	9	26.77 \$	3.8039
Commercial Units of Service Cost of Service	↔	524,137 932,164 \$	4,316 1,653,085 \$	11,388	n/a ∩/a \$	2,863,142	↔	40.36 \$	3.3554
Industrial Units of Service Cost of Service	ળ	19,641 32,584 \$	72 30,632 \$	108 4,943	n/a n/a \$	68,158	↔		2.4388
Other Units of Service Cost of Service	₩	29,768 54,632 \$	354 129,181 \$	252 12,763	n/a n/a \$	196,576	↔		4.0050
Direct Private Fire Cost of Service		n/a	n/a	.γa \$	\$ 050'25	57,050			
Total System Cost of Service	69	4,459,700 \$	10,724,211 \$	3,742,588 \$	\$ 050'25	18,983,549			
Total System Cost of Service	(s)		10,724,211 \$		67,050	18,983,549			

16,647 219 16,866

Direct Private Fire

匠

ARIZONA WATER COMPANY
Test Year Ended December 31, 2010
Rate of Return by Customer Class - Present Rates

[8] [7] [7] [8] 2,270,377 \$ 8 29,855 2,300,233 \$ 8 8 8 1,724,610 3 398,859 (74,871) 1 98,214 2,193,056 \$ 6 (193,919) 3 1,46,244 2,193,056 \$ \$ (193,919) 3 1,59% 9,72% 657,004 \$ \$ 1,4438 \$ \$ 764,266 \$ \$ \$ (48,725) \$ (48,725) \$ (Commercial In Commercial In S77 \$ 863,168 \$ 14,519 \$ 11,351 \$ 11,351 \$ 11,351 \$ 11,351 \$ 1251 \$ 31,251 \$ 37,340 \$ 117,727 \$ 37,340 \$ 117,727 \$ 37,340 \$ 117,727 \$ 119) \$ 304,920 \$ 116 \$ 234,989 \$ 116 \$ 234,989 \$ 116 \$ 234,989 \$ 118,811 \$ 128 \$ 138,811 \$ 128 \$ 138,811 \$ 128 \$ 138,811 \$ 1
	Industrial Industrial

4.78% 9.72%

12,863 6,537

132,369

6,326

4,429

3,090

8,559 1,193 720 2 10,540

46.63%

24,731

7,865 1,328

(347)

24,384

100% 0%

55 55

Supporting Schedules: G-3 Rebuttal, G-4 Rebuttal, H-1 Rebuttal

¹Allocated to customer classes based on percentage of total water revenues

ARIZONA WATER COMPANY Test Year Ended December 31, 2010 Cost Distribution to Customer Classes

Exhibit

Schedule G-1 Rebuttal Page 6 of 14 Witness: Reiker

[F]
Cost of Service
Monthly Commodity

Monthly Fixed 5/8"

838,170 3,586 77,570 24,731 4,008,556 4,008,556 3,064,498 Total Cost of Service Cochise (Bisbee, Sierra Vista) 49 ↔ 49 ₩ ø 24,731 \$ n/a 24,731 n/a n/a ⊓/a 7a 1/a n/a n/a n/a /a 24,731 Private Fire Direct 69 76,376 998,188 13.07 70,656 869,472 5,628 119,290 68 8,966 n/a 24 458 998,188 Customer <u>ত</u> Ē 69 69 ↔ 69 ↔ ₩ 7,633 2,114,561 277.04 6,073 1,609,175 1,452 462,698 11 2,921 97 39,767 2,114,561 ďa equiv. meter Demand 亶 18,429 28,836 \$ ₩ 470,603 585,851 668,406 871,076 1.30 179,335 256,182 871,076 39 206 ⊔/a Commodity ₹ 69 69 Total System Cost of Service Commercial Units of Service Cost of Service Units of Service Units of Service Units of Service Cost of Service Cost of Service Cost of Service Cost of Service Direct Private Fire Cost of Service Cost per Unit Unit Total Units Residential Industrial Other

2.9546

23.35

2.7185

↔

34.48

2.6436

4

148.87

69

43.2966

₩

30.69

69

ARIZONA WATER COMPANY
Test Year Ended December 31, 2010
Rate of Return by Customer Class - Present Rates

Exhibit Schedule G-1 Rebuttal Page 7 of 14 Witness: Reiker

				San Manuel	jer		
		<u>Z</u>	[8]	[0]	[0]	[E]	E
	¥	Adjstd' Total - Rebuttal	Residential	Commercial	Industrial	Other	Direct Private Fire
Operating Revenues Water Revenues (Sch. H-1) Miscellaneous Revenues ¹ (Sch. H-1) Trial Operating Papariuse	<i>⊌</i> 6	932,277 \$	763,888 1	159,464 2,622	<i>у</i> э (287
oral Operating Revenues	æ	947,605 \$		\$ 162,085 \$	↔	8,781 \$	292
Operating Expenses Operations & Maintenance Expense		765,499	655,462	104,756		5.281	0
Depreciation & Amortization Expense		112,956	93,313	18,450	•	1,189	· e
Income laxes		(24,004)	(31,053)	6,556	•	388	105
Other Taxes		49,211 14 635	40,323	8,417	•	456	15
Total Operating Expenses	€	918,298 \$	770,576	\$ 140,183 \$	69	7,416 \$	123
Taxable Income		(62,111)	(80,352)	16,964		1,004	272
Net Operating Income	6	29,307 \$	5,871	\$ 21,902 \$	€	1,366 \$	168
Interest Expense		67,414	55,169	11,494		750	1
Rate Base	69	2,014,751 \$	1,648,793 \$	343,516 \$	69	22,406 \$	36
Rate of Return (Ln. 17 + Ln. 23)		1.45%	0.36%	6.38%	n/a	6.10%	469.42%
Required Rate of Return (Sch. A-1, Ln. 12)		9.72%	9.72%	9.72%	9.72%	9.72%	9.72%
Required Operating Income (Ln. 23 X Ln. 27)	↔	195,785 \$	160,223	\$ 33,382 \$	69	2,177 \$	3
Operating Income Deficiency (Ln. 29 - Ln. 17)	↔	166,478 \$	154,352 \$	11,479 \$,	812 \$	(165)
Additional Taxes at Proposed Rates (Sch. G-4, Lns. 42 + 48 - 18 + 24)	↔	139,259 \$	\$ 583'66	37,694 \$	<i>€</i>	1,968 \$	41
Required Increase in Gross Revenues (Ln. 31 + Ln. 34)	↔	305,737 \$	253,935 \$	49,174 \$	↔	2,779 \$	(151)
% Required Increase in Gross Revenues (Ln. 36 + Ln. 5)		32.26%	32.70%	30.34%	%00:0	31.65%	-51.71%
Gross Revenue Requirement (Ln. 5 + Ln. 36)	€	1,253,342 \$	1,030,382 \$	211,259 \$	69	11,561 \$	141
Less: Miscellaneous Revenues at Proposed Rates	↔	(24,610) \$	(19,496) \$	(4,848) \$	69	\$ (259)	(9)
Revenue Requirement - Metered Water Revenues	€	1,228,733 \$	1,010,886 \$	206,411 \$	٠,	11,302 \$	135
% of Revenues Required from Fixed Charge % of Revenues Required from Commodity Charge		41% 59%	42% 58%	36% 64%	n/a n/a	38% 62%	100%
'Allocated to customer classes based on percentage of total water revenues							

percentage of total water revenues

ARIZONA WATER COMPANY Test Year Ended December 31, 2010 Cost Distribution to Customer Classes

Exhibit
Schedule G-1 Rebuttal
Page 8 of 14
Witness: Reiker

f] [G] Cost of Service	y Commodity Per M Gal		25.56 \$ 4.9775	37.16 \$ 6.6000	. ↔	55.14 \$ 8.6709		
	Monthly Fixed 5/8"		↔	<u>6</u>	₩	й <i>ө</i>		
<u>(ii)</u>	Total Cost <u>of Service</u>	1,253,342	1,030,382	211,259	1	11,561	141	1,283,342
[<u>o</u>]	Direct Tot Private Fire of 3	п/а 141 \$ п/а	n/a n/a \$	n/a n/a \$	n/a n/a \$	n/a n/a \$	141	141 \$
[5]	Customer Priv	bill 17,597 228,055 \$ 12.96	16,740 208,217	840 19,133		17 704	n/a \$	\$ 228,055. \$
[8]	Demand	equiv. meter 1,757 563,468 \$ 320.79 \$	1,404 442,106 \$	330 113,900 \$	⇔	23 7,462 \$	n/a	563,468 \$
₹	Commodity	M Gal equ 142,070 461,679 \$ 3.25 \$	120,767 380,058 \$	20,481 78,226 \$	↔	822 3,395 \$	n/a	461,679 \$
	ଧ	63 €9	€9	↔	↔	↔		ω
		Unit Total Units Cost of Service Cost per Unit	Residential Units of Service Cost of Service	Commercial Units of Service Cost of Service	Industrial Units of Service Cost of Service	Other Units of Service Cost of Service	Direct Private Fire Cost of Service	Total System Cost of Service

Rate of Return by Customer Class - Present Rates

ARIZONA WATER COMPANY Test Year Ended December 31, 2010

283 -106 12 169 n/a 9.72% (169) (151) -52.77% %00 %00 275 9 287 17 136 38 Private Fire Direct E. ↔ (723) (474) 254 20,094 7,997 3,269 2,379 870 5,392 48,052 9.72% 4,669 10.61% 19,841 11.22% 22,225 6,164 1,608 2,854 2,131 21,752 187 Other 43% 57% 回 ø 9.72% 0.00% n/a ndustrial 0 n/a n/a Oracle ₩ (3,511) \$ (14,453) \$ 161,229 \$ 9.72% 2,791 301,772 29,325 1.76% 156,439 1,999 43,778 14.51% 64,177 20,952 21,176 6,857 14,660 17,244 157,718 1,498 54,857 10,097 Commercial 44% 56% <u>ල</u> ₩ 2,148,173 \$ (15,221) \$ 117,937 5.32% 23,413 14.54% 929,213 471,376 152,934 26,626 35,109 11,003 697,049 9.72% 208,751 94,524 801,039 10,237 811,276 68,974 114,227 71,879 913,992 Residential 52% 48% <u>@</u> ₩ ø ₩ ₩, ↔ ₩ 4 163,566 6.55% 9.72% 12.39% (19,212)12,494 990,095 543,550 177,155 50,288 42,848 12,688 826,530 977,602 130,270 2,497,996 242,745 79,180 43,528 122,708 83,584 1,112,803 1,093,591 Adjstd' Total -Rebuttal 51% ₹ 69 63 69 H 69 % Required Increase in Gross Revenues (Ln. 36 + Ln. 5) Required Increase in Gross Revenues (Ln. 31 + Ln. 34) Less: Miscellaneous Revenues at Proposed Rates Revenue Requirement - Metered Water Revenues % of Revenues Required from Fixed Charge % of Revenues Required from Commodity Charge Operating Income Deficiency (Ln. 29 - Ln. 17) Required Operating Income (Ln. 23 X Ln. 27) Gross Revenue Requirement (Ln. 5 + Ln. 36) Required Rate of Return (Sch. A-1, Ln. 12) Additional Taxes at Proposed Rates (Sch. G-4, Lns. 42 + 48 - 18 + 24) Depreciation & Amortization Expense Miscellaneous Revenues¹ (Sch. H-1) Total Operating Revenues Operating Expenses Operations & Maintenance Expense Rate of Return (Ln. 17 + Ln. 23) Total Operating Expenses Water Revenues (Sch. H-1) Net Operating Income Operating Revenues Interest Expense Taxable income Property Taxes Income Taxes Other Taxes Rate Base

Allocated to customer classes based on percentage of total water revenues

ARIZONA WATER COMPANY
Test Year Ended December 31, 2010
Rate of Return by Customer Class - Present Rates

		₹.	<u>[8]</u>	<u>ত</u>	<u>[</u>	(E)	E
	∢	Adjstď Total - <u>Rebuttal</u>	Residential	Commercial	Industrial	Officer	Direct Private Fire
Operating Revenues Water Revenues (Sch. H-1) Miscellaneous Revenues¹ (Sch. H-1)	€9	115,521 \$	45,127 \$	61	ı	9,032	.
Total Operating Revenues	69	117,103 \$	45,745 \$	62,116 \$	1 4	124	6
Operating Expenses Operations & Maintenance Expense		147,769	60.293		,	2 6	
Depreciation & Amortization Expense		89,429	58,549	28.264	•	242,11	0.00
Property Taxes		(48,530)	(29,068)	(17,508)		(1,842)	3/4
Other Taxes		567 567	1,980	2,688	ı	396	•
Total Operating Expenses	69	194,302 \$	91,985 \$	\$ 196'68	1	\$ 12,085	\$ 265
Taxable Income		(125,730)	(75,308)	(45,360)	•	(4,771)	(292)
Net Operating Income	s	\$ (22,00)	(46,240) \$	(27,851) \$		- 1	(179)
Interest Expense						7	
			ı	•	1	1	•
Rate Base	↔	(116,014) \$	(107,281) \$	(3,847) \$,	\$ 611	\$ (5.497)
Rate of Return (Ln. 17 + Ln. 23)		n/a	п/а	n/a	n/a	-479.85%	
Required Rate of Return (Sch. A-1, Ln. 12)		Note ²	Note ²	Note ²	Note ²	Note ²	Note ²
Required Operating Income (Ln. 23 X Ln. 27)	↔	↔	<i>ч</i> э	6 Э		\$	
Operating Income Deficiency (Ln. 29 - Ln. 17)	↔	77,200 \$	46,240 \$	27,851 \$,	\$ 2,930 \$	179
Additional Taxes at Proposed Rates (Sch. G-4, Lns. 42 + 48 - 18 + 24)	↔	28,719 \$	6,474 \$	19,364 \$,	\$ 2,726 \$	
Required Increase in Gross Revenues (Ln. 31 + Ln. 34)	69	105,918 \$	52,714 \$	47,215 \$	€7		
% Required Increase in Gross Revenues (Ln. 36 + Ln. 5)		90.45%	115.23%	76.01%	0.00%	61.77%	387.65%
Gross Revenue Requirement (Ln. 5 + Ln. 36)	↔	223,021 \$	98,459 \$	109,331 \$	<i>↔</i>		
Less: Miscellaneous Revenues at Proposed Rates	↔	(2,884) \$	(949) \$	(1,684) \$	<i>↔</i>		(2)
Revenue Requirement - Metered Water Revenues	₩.	220,137 \$	97,510 \$	107,647 \$	\$	14,567 \$	413
% of Revenues Required from Fixed Charge % of Revenues Required from Commodity Charge		35% 65%	52% 48%	22% 78%	n/a n/a	[[100%
Allocated to customer classes hased on	² Adopt	s Staff's recommen	Adoptis Staff's recommendation to set required	73			
percentage of total water revenues	opera \$0 as	ating income for Sac	operating income for SaddleBrooke Ranch equal to \$0 as a result of negative rate hase	qual to			

N:2011_Rate_Case\Schedules\Eastern Group\2011 AWC Rate Case Mode\REBUTAL SCHEDULES AWC EG 03:30:12 900am.xisx G1 Processing Date: 3/30/2012 11:09 AM

Supporting Schedules: G-3 Rebuttal, G-4 Rebuttal, H-1 Rebuttal

ARIZONA WATER COMPANY Test Year Ended December 31, 2010 Cost Distribution to Customer Classes

Exhibit
Schedule G-1 Rebuttal
Page 12 of 14
Witness: Reiker

Direct Direct	M Gal			7	<u>.</u>		<u></u>	<u>[</u>
MGal equiv.meter biil 1,359 nda 19,634 \$ 96,790 \$ 28,922 \$ 420 \$ 96,879 \$ 96,790 \$ 28,922 \$ 420 \$ 20,421 nda \$ 10,289 \$ 11,712 nda \$ 10,289 \$ 11,712 nda \$ 10,289 \$ 11,730 \$ 17,520 nda \$ 10,840 \$ 11,884 \$ 11,8	M Gal S			Commodity	Demand	Customer	Direct Private Fire	Total
Service 4,897 139 1,212 π/a Service \$ 12,644 64 1,212 π/a Service \$ 68,905 \$ 32,805 \$ 7,620 π/a Service \$ - \$ - \$ - π/a Service \$ - \$ - \$ - π/a Service \$ - \$ - \$ - π/a Service \$ 11,684 \$ 2,255 \$ 871 π/a Service \$ 11,684 \$ 2,255 \$ 871 π/a	Service	Unit Total Units Cost of Service Cost per Unit	₩ ₩	9,634 8,879 4.93	equiv. meter 207 96,790 466.48	bill 1,359 28,932 21.29		€9
Service \$ 12,644 64 144 n/a service \$ 68,905 \$ 32,805 \$ 7,620 n/a Service \$ 5,093 4 3 n/a Service \$ 11,684 \$ 2,255 \$ 871 n/a Service \$ 11,684 \$ 2,255 \$ 871 n/a Service	Service \$ 12,644 64 144 not a service \$ 32,805 \$ 7,520 not a service \$.	Residential Units of Service Cost of Service	υ		139 61,730		η/a η/a	€9
tis of Service	tis of Service	Commercial Units of Service Cost of Service	<i>ω</i>		64 32,805		n/a n/a	€9
ts of Service 2,093 4 3 n/a st of Service \$ 11,684 \$ 2,255 \$ 871 n/a Private Fire n/a n/a st of Service	11,684 \$ 2,255 \$ 871 na na na st of Service \$ 11,684 \$ 2,255 \$ 871 na na na st of Service	Industrial Units of Service Cost of Service	69		, ,		n/a n/a	€7
n/a n/a \$ 420	1/4 n/a \$ 420 St of Service \$ 96,790 \$ 28,932 \$ 420	Other Units of Service Cost of Service	₩		4 2,255		n/a n/a	↔
	\$ 96,879 \$ 96,790 \$ 28,932 \$ 420	Direct Private Fire Cost of Service		n/a	n/a			€9
\$ 96,879 \$ 96,790 \$ 28,932 \$ 420		Total System Cost of Service	 	\$ 628'96	062'96	28,932		69

			[8]		<u>[]</u>	<u>0</u>		(E)		[F] Cost of	Ser	[G] ^{ag}
0	Commodity		Demand		Customer	Direct Private Fire		Total Cost of Service	M. W.	Monthly Commodity Fixed 5/8" Per M Gal	الم ق	ommodit er M Ga
	M Gal 19,634 96,879 4.93	↔ ↔	equiv. meter 207 96,790 466.48	₩ ₩	bill 1,359 28,932 21.29	n/a \$ 420 n/a	<i>↔</i>	223,021				
	4,897 16,289	€9	139 61,730	€9	1,212	n/a n/a	↔	98,459	₩	35.35	€9	9.6292
	12,644 68,905	69	64 32,805	↔	144 7,620	n/a n/a	€9	109,331	49	74.17	↔	6.7468
		↔		€9		n/a n/a	€7		↔	•	€9	•
	2,093 11,684	€9	4 2,255	€9	3 871	n/a n/a	€9	14,810	↔	313.82	↔	6.1211
	n/a		n/a		n/a \$	\$ 420	69	420				
	96,879	↔	96,790	€	\$ 28,932 \$	\$ 420	69	223,021				

ARIZONA WATER COMPANY
Test Year Ended December 31, 2010
Rate of Return by Customer Class - Present Rates

	İ	\\	[8]	VVInkelman	an [D]		Œ
		•	į	Ē	2	Ī	í.
	Ą	Adjstď Totał - <u>Rebuttal</u>	Residential	Commercial	<u>Industrial</u>	Other	Direct Private Fire
Operating Revenues (Sch. H-1) Water Revenues (Sch. H-1) Miscellaneous Revenues ¹ (Sch. H-1)	சு	100,421 \$	54,241 \$ 902		3,089 \$	€	1 1
Total Operating Revenues	€9	102,090 \$	55,143 \$	43	3,140 \$		
Operating Expenses Operations & Maintenance Expense		60,435	38,580	20,394	1.460		ı
Depreciation & Amortization Expense		20,297	13,362	6,430	505		•
Property Taxes		334 8,910	(3,581) 4,813	3,677 3,823	238	1 1	, ,
Other Taxes		- 1			32		,
l otal Operating Expenses	•	91,315 \$	54,028 \$	34,777 \$	2,510 \$	\$	1
Taxable Income		828	(9,189)	9,435	612	1	•
Net Operating Income	မာ	10,775 \$	1,114 \$	\$ 000'6	631 \$	€ 9	
Interest Expense		10,252	6,722	3,272	257	,	•
Rate Base	€9	\$ 066,390	\$ 200'902	\$ 062'26	7,695 \$	(у)	•
Rate of Return (Ln. 17 + Ln. 23)		3.52%	0.55%	9.23%	8.20%	n/a	n/a
Required Rate of Return (Sch. A-1, Ln. 12)		9.72%	9.72%	9.72%	9.72%	9.72%	9.72%
Required Operating Income (Ln. 23 X Ln. 27)	↔	29,774 \$	19,523 \$	\$ 203'8	748 \$	6 Э	1
Operating Income Deficiency (Ln. 29 - Ln. 17)	69	18,999 \$	18,409 \$	473 \$	117 \$	69 '	1
Additional Taxes at Proposed Rates (Sch. G-4, Lns. 42 + 48 - 18 + 24)	↔	12,865 \$	\$ 629'9	\$ 660,9	147 \$	69	•
Required Increase in Gross Revenues (Ln. 31 + Ln. 34)	€9	31,863 \$	25,087 \$	6,511 \$	264 \$	6 9	
% Required Increase in Gross Revenues (Ln. 36 + Ln. 5)		31.21%	45.50%	14.86%	8.42%	100.00%	100.00%
Gross Revenue Requirement (Ln. 5 + Ln. 36)	s s	133,953 \$	80,230 \$	50,318 \$	3,405 \$	<i>€</i> }	ı
Less: Miscellaneous Revenues at Proposed Rates	↔	(2,543) \$	(1,360) \$	(1,116) \$	\$ (29)	٠	ı
Revenue Requirement - Metered Water Revenues	69	131,410 \$	78,870 \$	49,203 \$	3,337 \$	↔	
% of Revenues Required from Fixed Charge % of Revenues Required from Commodity Charge		55% 45%	61% 39%	46% 54%	46% 54%	n/a n/a	100% 0%
¹ Allocated to customer classes based on percentage of total water revenues							

percentage of total water revenues

ARIZONA WATER COMPANY Test Year Ended December 31, 2010 Cost Distribution to Customer Classes

Exhibit
Schedule G-1 Rebuttal
Page 14 of 14
Witness: Reiker

<u>@</u>	Demand	equiv. mete	70,	Ñ		č	Ś			30			2,								70																			
			↔ ,	n		6	9			₩			69			6	9				69																			
₹	Commodity	M Gal	25,143	0.82		15,912	12,138		13,991	12,293		829	694			•	r		n/a		25,143																			
	O _I		69 6	9		e)			69			€7			ø	9				8																			
		v	ervice		aí	Units of Service Cost of Service		ial	Units of Service	of Service		Units of Service	of Service		Specific	Cost of Service		Direct Private Fire	of Service		Total System Cost of Service																			
		Unit Total Unit	Cost of Service		Residential	Units		Commercial	Units	Cost	Industrial	Units	Cost	, ad	Cirici	Cost		Direct Pri	Cost		Total																			
d	S ←	2 6	4 v	9 ~		0	11	2	m s	ar un	9	7	ω (n c	· -	- 0	<u>ر</u>	24	വ	۰ ۸	8	o	0 1	- c	N M	4	9	1 0	~ α	ത	0	 N M	· ++	.0	(O 1	. ~	 	_	~	

[6]	Commodity Per M Gal		1.9623	1.9596	2.2338			
	thly Comn		S € 8	<i>↔</i> o	\$ 2	€>		
E	Monthly Fixed 5/8"		30.22	47.49	44.97	•		
	Mer Mer		6 9	↔	89	€		
(E)	Total Cost of Service	133,953	80,230	50,318	3,405	,	•	133,953
ے	H 01	69	↔	9	↔	↔	€9	69
Winkelman [D]	Direct Private Fire	ח/מ ח/מ	n/a n/a	n/a n/a	n/a n/a	n/a n/a	•	
	ш,	€					69	49
[5]	Customer	bill 1,848 38,109 20.62	1,608 29,937	228 7,777	12 395	1 1	n/a	38,109
		₩ ₩	↔	€	€9	69		69
[8]	Demand	equiv. meter 239 70,701 295.62	137 38,138	94 30,248	8 2,316	1 1	n/a	70,701
		↔ ↔	69	↔	9	↔		69
[A]	Commodity	M Gal 30,732 25,143 0.82	15,912 12,156	13,991 12,293	829 694	1 I	n/a	25,143
	O	↔ ↔	↔	↔	↔	↔		€
								f Service
								f Ser

				Eastern Group	dn		
		[A] Adjstd' w/	[8]	[0]	[0]	[9]	E
		Rebuttal	Residential	Commercial	<u>Industrial</u>	Other	Direct Private Fire
Operating Revenues Water Revenues (Sch. H-1)	₩	24,739,691 \$		\$ 4,822,349 \$	86,252 \$	383,206 \$	75,628
Miscellaneous Kevenues (Sch. H-1) Total Operating Revenues	69	975,534 25,715,225 \$	775,579	180,055 \$ 5,002,404 \$	3,868	13,081	2,951
Operating Expenses Operations & Maintenance Expense		11,964,006	10.010.679	1.791.757	33,869	127 524	177
Depreciation & Amortization Expense		3,567,635	3,005,439	489,539	7,276	37,166	28,214
Income laxes		2,552,005	1,616,489	834,359	15,093	72,990	13,074
Other Taxes		1,187,906	934,000 215,902	228,419 38.051	4,420 707	17,484 2,636	3,584
Total Operating Expenses	\$	19,528,852 \$	1	\$ 3,382,125 \$	61,365 \$	257,799 \$	45,054
Taxable Income		6,611,604	4,187,916	2,161,615	39,102	189,099	33,873
Net Operating Income	69	6,186,373 \$	4,365,325 \$	1,620,279 \$	28,755 \$	138,489 \$	33,525
Interest Expense		2,126,774	1,793,898	293,023	4,746	22,380	12,727
Rate Base	↔	63,560,931 \$	53,612,578 \$	8,757,309 \$	141,851 \$	\$ 988'899	380,357
Rate of Return ² (Ln. 17 ÷ Ln. 22)		9.73%	8.14%	18.50%	20.27%	20.71%	8.81%
Increase in Gross Revenues	ь	5,198,269 \$	4,143,082 \$	962,901 \$	9,894 \$	75,129 \$	7,262
% Increase in Gross Revenues		25.3%	25.9%	23.8%	12.3%	23.4%	10.2%
% of Revenues Generated from Fixed Charge % of Revenues Generated from Commodity Charge		49% 51%	51% 49%	39% 61%	38% 62%	40% 60%	100%

percentage of total water revenues ²Rate of return at proposed rates includes the effects of proposed rate consolidation 'Allocated to customer classes based on

Supporting Schedules: H-1 Rebuttal, G-3 Rebuttal, G-4 Rebuttal

ARIZONA WATER COMPANY Test Year Ended December 31, 2010 Cost of Service Summary - Proposed Rates

			[A] Adjstď w/	[8]	[a] [b]	[Q]	<u> </u>	[£]
- Ro			Increase - Rebuttal	Residential	Commercial	Industrial	Other	Direct Private Fire
- ი ი	Operating Revenues Water Revenues (Sch. H-1)	64	18 125 999 &	14 580 858 ·	3 107 EGB &	\$ 900 20	214.050	000 83
4	Miscellaneous Revenues [†] (Sch. H-1)	•		689,828	151,279			2.584
ഗധ	Total Operating Revenues	69	18,983,550 \$	15,270,686 \$	က်	82,627 \$	224,177 \$	57,212
) / @	Operating Expenses Operations & Maintenance Expense		900 000 8	7 000 359	424 040	100	1000	
6	Depreciation & Amortization Expense		2.671,695	2.288.422	332.723	30,333 6,268	75,004	19 278
10	Income Taxes		2,020,001	1,388,875	569,271	14,120	37.481	10.254
Ę	Property Taxes		921,351	741,150	162,533	4,010	10,880	2,777
52 !	Other Taxes		170,486	145,036	23,314	635	1,497	. 2
13	Total Operating Expenses	€9	14,082,758 \$	11,623,842 \$	2,222,789 \$	\$ 696'55	147,737 \$	32,421
. t	Taxable Income		5,233,314	3,598,227	1,474,837	36,581	97,104	26,564
5 7 5	Net Operating Income	φ.	4,900,792 \$	3,646,845 \$	1,126,058 \$	26,658 \$	76,439 \$	24,791
e 6 6	Interest Expense		1,687,478	1,437,493	220,491	4,197	16,817	8,481
21								
2 23	Rate Base	₩	50,432,117 \$	42,961,020 \$	6,589,625 \$	125,438 \$	502,584 \$	253,449
24	Rate of Retum 2 (Ln. 17 ÷ Ln. 22)		9.72%	8.49%	17.09%	21.25%	15.21%	%82'6
26	Increase in Gross Revenues	€>	3,926,987 \$	3,254,778 \$	610,308 \$	8,928 \$	49,546 \$	3,427
58 58 58	% Increase in Gross Revenues		26.1%	27.1%	22.3%	12.1%	28.4%	6.4%
33 33 33 33 33 33	% of Revenues Generated from Fixed Charge % of Revenues Generated from Commodity Charge		50% 50%	52% 48%	40% 60%	35% 65%	48% 52%	100%

^{&#}x27;Allocated to customer classes based on

					Cochise (Bisbee, Sierra Vista)	erra Vista)		
			[A] Adjstd' w/	[8]	[0]	[Q]	(E)	[F]
No L			Increase - Rebuttal	Residential	Commercial	Industrial	Other	Direct Private Fire
- 0 m 4	Operating Revenues (Sch. H-1) Water Revenues (Sch. H-1) Miscellaneous Revenues ¹ (Sch. H-1)	↔	3,939,820 \$	2,792,873 \$		3,875 \$	113,394 \$	19,893 347
ഗധ	Total Operating Revenues	8	4,008,555 \$	2,841,598 \$	1,027,402 \$	3,943 \$	115,373 \$	20,240
6 8 10 11	Operating Expenses Operations & Maintenance Expense Depreciation & Amortization Expense Income Taxes Property Taxes		2,147,527 496,103 337,481 151,085	1,724,610 398,859 130,680 107,102	391,251 82,721 176,172 38,723	1,474 503 574 149	30,126 5,461 27,577 4,348	66 8,559 2,478 763
5 5 5	Other Taxes Total Operating Expenses	€9	57,585 3,189,781 \$	46,244 2,407,495 \$		2,739 \$	808	11,868
4 to t	Taxable Income		874,328	338,558	456,418	1,486	71,444	6,421
2 1 9	Net Operating Income	69	818,774 \$	434,103 \$	328,043 \$	1,204 \$	47,053 \$	8,372
20 19	Interest Expense		281,927	226,225	47,797	292	3,185	4,429
22 21	Rate Base	69	8,425,690 \$	\$ 796,097,9	1,428,453 \$	8,718 \$	95,183 \$	132,369
24 25 25	Rate of Return² (Ln. 17 + Ln. 22)		9.72%	6.42%	22.96%	13.82%	49.43%	6.32%
26 27	Increase in Gross Revenues	€7	705,055 \$	541,365 \$	152,882 \$	\$ 252	8'92'9	3,374
28 5 78 5 78 5	% Increase in Gross Revenues		21.3%	23.5%	17.5%	16.5%	6.3%	20.0%
33 33 33 33 33 33 33 33 33 33 33 33 33	% of Revenues Generated from Fixed Charge % of Revenues Generated from Commodity Charge		48% 52%	53% 47%	36% 64%	94% 6%	22%	100%
33 38 33 34 38 43 38								
39 4 4 0 4 1								
4 4 4 2 6 4								
45 46 47								
84 4 6 50 5 4								
52 54 55 55	'Allocated to customer classes based on percentage of total water revenues ² Rate of return at proposed rates includes the effects of proposed rate consolidation							

percentage of total water revenues ²Rate of return at proposed rates includes the effects of proposed rate consolidation Allocated to customer classes based on

ARIZONA WATER COMPANY Test Year Ended December 31, 2010 Cost of Service Summary - Proposed Rates

1		0	••	↔	€9			
9	Operating Revenues Water Revenues (Sch. H-1) Miscellaneous Revenues¹(Sch. H-1) Total Operating Revenues Operating Expenses Operations & Maintenance Expense Depreciation & Amortization Expense	income Taxes Property Taxes Other Taxes Total Operating Expenses Taxable income	Net Operating Income Interest Expense	Rate Base Rate of Return ² (Ln. 17 + Ln. 22)	Increase in Gross Revenues % Increase in Gross Revenues	% of Revenues Generated from Fixed Charge % of Revenues Generated from Commodity Charge		¹ Allocated to customer classes based on Percentage of total water revenues ² Rate of return at proposed rates includes the effects of proposed rate consolidation
Line No.	- 0 1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	5	18 19 20 20	21 23 24 25	26 27 28 29	30 32 33 34 35 36 37	38 39 40 44 44 45 46 46 46 47 48 48 48 48	52 53 54 55

	(F)	Direct Private Fire	324	330	c	5 6	121	4,	137		215	193	-	36	538.42%	36	13.2%	100% 0%
			8	5 6		- m		Φ.	69			₩		69		€9		
	Œ.	Other	13,442	13,702	5 281	1,189	2,243	569	9,384	5812		4,318	750	22,406	19.27%	4,920	96.0%	66% 34%
			69	69					69			\$		69		69		
-	[0]	Industrial	,		•	•	1	,		•		•	•	•	0.00%	ı	0.0%	%0 %0
San Manuel			↔	69					69			•		€9		69		
-	<u>ত</u>	Commercial	251,386	256,234	104,756	18,450	42,032	2,003	177,877	108,895		78,357	11,494	343,516	22.81%	94,149	58.1%	51% 49%
			69	69					€		6	•		↔		₩		
Ē	<u>0</u>	Residenti <u>al</u>	1,010,949	1,030,445	655,462	93,313	42,772	12,532	870,159	171,198	160 287	77,00	55,169	1,648,793	9.72%	253,999	32.7%	36%.
			€>	69				- 1	₩		65			69		69		
[A]	Adjstď w/ Increase	Rebutta	1,276,102 24,610	1,300,712	765,499	110.476	53,990	14,635	1,057,557	286,217	243.155		67,414	2,014,751	12.07%	353,106	37.3%	40%
			€>	↔				•	A		€			↔		⇔		

^{&#}x27;Allocated to customer classes based on percentage of total water revenues 'Rate of return at proposed rates includes the effects of proposed rate consolidation

															% of Revenues Generated from Fixed Charge % of Revenues Generated from Commodity Charge		
	↔	es					€9		69		€9		€				
Increase - Rebuttal	1,080,666 \$	\$ 778,860,1	543,550	177,155	91,929 44,735	- 1		238,165	229,820 \$	83,584	2,497,996 \$	9.20%	109,782 \$	11.1%	45% 55%		
Residential	856,189 \$	871,410 \$	471,376	152,934	49,706 35,443	- 1		128,775	150,948 \$	71,879	2,148,173 \$	7.03%	60,134 \$	7.4%	45% 55%		
Commercial	197,509 \$	201,020 \$	64,177	20,952	37,101 8,176			96,120	69,116 \$	10,097	301,772 \$	22.90%	42,582 \$	26.9%	43% 57%		
<u>Industrial</u>	69 1 1	\$		ı			↔		•	ŀ	,	0.00%	6 ≯	%0:0	%0 0		
Other	26,644 \$	27,118 \$	7.997	3,269	5,000 1,103			12,954	9,562 \$	1,608	48,052 \$	19.90%	7,024 \$	35.0%	55% 45%		
	- Residential Commercial Industrial	Increase - Rebuttal Residential Commercial Industrial Other 1,080,666 \$ 856,189 \$ 197,509 \$ - \$ 26,644 19.27 15.21 3.511 - 474	Increase - Rebuttal Commercial Industrial Other 1,080,666 \$ 856,189 \$ 197,509 \$ - \$ 26,644 19,212 15,221 3,511 - 474 474 1,099,877 \$ 871,410 \$ 201,020 \$ - \$ 27,118	Increase - Rebuttal Commercial Industrial Other 1,080,666 \$ 856,189 \$ 197,509 \$ - \$ 26,644 19,212 15,221 3,511 - 474 474 1,099,877 \$ 871,410 \$ 201,020 \$ - \$ 27,118	Increase - Rebuttal Residential Commercial Industrial Other 1,080,666 \$ 856,189 \$ 197,509 \$ - \$ 26,644 19,212 15,221 3,511 - 474 1,099,877 \$ 871,410 \$ 201,020 \$ - \$ 27,118 177,155 152,994 20,952 - 7,997 7,997 177,155 152,994 20,952 - 7,997 20,952 - 7,9	Increase - Rebuttal Residential Commercial Industrial Other 1,080,666	Increase - Residential Commercial Industrial Other 1,080,666 \$ 856,189 \$ 197,509 \$ - \$ 26,644 19,212	Increase - Rebuttal Commercial Industrial Other Commercial Industrial Other Commercial Industrial Other 1,080,666 \$ 856,189 \$ 197,509 \$ - \$ 26,644 19,212 3,511 - 474 474 1,099,877 \$ 871,410 \$ 201,020 \$ - \$ 27,118 177,155 152,934 20,952 - 5,000 44,735 35,443 8,176 - 5,000 44,735 35,443 8,176 - 5 1,103 1,10	Increase - Rebuttal Commercial Industrial Other 1,080,666 \$ 856,189 \$ 197,509 \$ - \$ 26,644 19,212 15,221 3,511 - \$ 27,118 1,099,877 \$ 871,410 \$ 201,020 \$ - \$ 27,118 1,77,155 152,934 20,952 - \$ 3,269 3,7101 - \$ 5,000 44,735 14,968 11,003 1,498 - \$ 17,556 120,462 \$ 131,904 \$ - \$ 17,556 12,954 17,556 12,954 17,556 12,954 17,556 12,954 17,556 12,954 17,556 12,954 17,556 12,954 17,556 12,954 17,556 12,954 12,95	Increase - Residential Commercial Industrial Other 1,080,666	Increase - Rebuttal Commercial Industrial Other	Increase - Residential Commercial Industrial Other Rebuttal Ebbuttal Commercial Industrial Other 19,212 3,511 - \$ 26,644 74 19,212 3,511 - \$ 27,118 7,997 1,099,877 \$ 871,410 \$ 20,952 - \$ 27,118 7,997 17,155 15,234 20,952 - \$ 20,3269 1,029 49,706 37,101 - \$ 3,269 1,029 1,003 1,003 1,1008 1,100	Procease - Residential Commercial Industrial Other Rebuttal Commercial Industrial Other Commercial Industrial Other Industrial Other Industrial	Increase - Rebuttal Commercial Industrial Other Rebuttal Commercial Industrial Other Commercial Increase Seb.189	Note Peridential Commercial Industrial Other Rebuttal Sebuttal S 1080 666 Sesidential Commercial Industrial Other \$ 1080 666 \$ 866 189 \$ 197 509 \$ - \$ 26 644 \$ 1,089,877 \$ 871,410 \$ 201,020 \$ - \$ 27,118 \$ 1,099,877 \$ 871,410 \$ 201,020 \$ - \$ 27,118 \$ 1,099,877 \$ 87,1376 64,177 - - \$ 27,118 \$ 1,287 \$ 20,962 - - \$ 27,118 \$ 1,287 \$ 1,103 1,103 - \$ 1,103 \$ 87,986 \$ 720,462 \$ 131,904 - \$ 1,103 \$ 87,996 \$ 7,148,173 \$ 96,120 - \$ 1,594 \$ 2,497,996 \$ 2,148,173 \$ 10,997 -	Februta Februta Commercial Industrial Other 1,090,666 6,666,169 197,509 5 5,644 1,090,877 5 671,410 5 201,020 5 5 27,118 1,099,777 15,221 2,547 2,547 1,509 1,77,145 1,28,34 2,547 2,148 1,39 1,098,777 1,28,47 2,148 1,39 2,39 1,09,78 1,10,79 1,10,79 1,10,79 1,109 1,10,79 1,10,79 1,10,79 1,10,79 1,10,79 1,10,79 1,10,79 1,10,79 1,10,79 1,10,79 1,10,79 1,10,79 1,10,79 1,10,79 1,10,79 1,10,79 1,10,79 1,10,79 1,10,79 1,10,79 1,10,79 1,10,79 1,10,79 1,20,79 1,10,79 1,10,79 1,20,79 1,20,79 1,10,79 1,10,79 1,20,79 1,20,79 1,10,79 1,10,79 1,20,79 1,20,79 1,10,79 1,10,79 1,20,79 1,20,79 1,10,79 1,10,79 1,20,79 1,20,79 1,10,79 1,10,79 1,20,79 1,20,79 1,10,79 1,20,79 1,20,79 1,10,79 1,20,79 1,20,79 1,20,79 1,10,79 1,20,79 1,20,79 1,20,79 1,10,79 1,20,79 1,20	

122

324 6 330

Direct Private Fire

Ē

136

194

316

100% 0%

14.9%

43

#DIV/0i

Recap Schedules:

Supporting Schedules: H-1 Rebuttal, G-3 Rebuttal, G-4 Rebuttal

Cost of Service Summary - Proposed Rates

ARIZONA WATER COMPANY Test Year Ended December 31, 2010 7

459

[F] Direct Private Fire 374 29 17 0

420

↔ 611 73.9% 11% 89% 11,245 2,242 697 583 1,109 6,764 15,676 15,919 14,810 1,806 181.62% Other Ξ ₩ %0.0 o/a %% Industrial SaddleBrooke Ranch [C] ID ↔ (3,847) \$ 810 48,025 77.3% 108,456 n/a 24% 76% 1,684 76,231 28,264 509 4,035 293 1,319 109,331 Commercial (107,281) \$ (36,408) 60,293 58,549 (22,887) (59,295)n/a 16,306 35.6% 58% 42% 61,103 98,459 62,052 2,273 Residential 亶 ↔ (116,014) \$ 2,884 188,578 147,769 89,429 (21,652) 6,908 (34,443) 71,475 61.0% 223,021 (56,095)n/a 34% 66% 185,694 [A] Adjstď w/ Increase -Rebuttal ₩ ↔ % of Revenues Generated from Fixed Charge % of Revenues Generated from Commodity Charge Operating Expenses
Operations & Maintenance Expense
Depreciation & Amortization Expense
Income Taxes Miscellaneous Revenues¹ (Sch. H-1) Rate of Return² (Ln. 17 + Ln. 22) % Increase in Gross Revenues Total Operating Expenses Total Operating Revenues Operating Revenues Water Revenues (Sch. H-1) Increase in Gross Revenues Net Operating Income Interest Expense Property Taxes Taxable Income Rate Base

(5,497)

2⁄9

100%

441.0%

380

¹Allocated to customer classes based on percentage of total water revenues ²Rate of return at proposed rates includes the effects of proposed rate consolidation

					Winkelman	au			
			[A] Adjstd' w/	[8]	[<u>0</u>]	(<u>o</u>)	[]	[F]	
No Cine			ncrease - Rebuttal	Residential	Commercial	<u>Industrial</u>	Other	Direct Private Fire	
- 0 m 4	Operating Revenues Water Revenues (Sch. H-1) Miscellaneous Revenues ¹ (Sch. H-1)	ь	131,410 \$	70,282 8	\$ 57,645 \$ 1,116	3,482 \$	↔		
ro w	Total Operating Revenues	↔	133,953 \$	1	\$ 58,761 \$	3,550 \$,	,	,
0 ~ & 0	Operating Expenses Operations & Maintenance Expense Demonstration & Amendication Expense		60,435	38,580	20,394	1,460	,	,	
, e	Depreciation & Amortzation Expense Income Taxes		20,297 12,272	13,362 2,649	6,430 9,224	505 399	1 1	1 1	
1 2	Property Taxes Other Taxes		9,837	5,261 855	4,315 452	261	rı		
13	Total Operating Expenses	€9	104,179 \$		\$ 40,815 \$	2,657 \$		\$	
<u> </u>	Taxable Income		31,794	6,862	23,898	1,034	,	•	
2 12	Net Operating Income	69	29,774 \$	10,936	\$ 17,945 \$	892 \$, ,,
5 5 5	Interest Expense		10,252	6,722	3,272	257	ı	ı	
22 23	Rate Base	↔	\$ 068'908	200'905	\$ 062'26 \$	\$ 569'2	•	· •	
2 4 %	Rate of Return² (Ln. 17 + Ln. 22)		9.72%	5.44%	18.35%	11.60%	0.00%	0.00%	
26	Increase in Gross Revenues	69	31,863 \$	16,500	\$ 14,954 \$	409 \$	1	6	
2 88 58	% Increase in Gross Revenues		31.2%	79.9%	34.1%	13.0%	100.0%	0.0%	
32 33 34 34 35	% of Revenues Generated from Fixed Charge % of Revenues Generated from Commodity Charge		43% 57%	45% 55%	38% 62%	53% 47%	%0 0	%0 %0	
35 36 37									
38 88									
42 42									
8 4 4									
64 4 74									
49 50 50									
52 53 54 55	'Allocated to customer classes based on percentage of total water revenues 'Rate of return at proposed rates includes the effects of proposed rate consolidation								

percentage of total water revenues ²Rate of return at proposed rates includes the effects of proposed rate consolidation 'Allocated to customer classes based on Supporting Schedules: H-1 Rebuttal, G-3 Rebuttal, G-4 Rebuttal

Line No. 1 Rate Base 2 Net Utility Plant in Service Commodity 5 Costomer 6 Customer 7 Direct Private Fire 8 Subtotal Net Utilit 10 Deductions 11 Commodity 12 Demand			Adjusted					
Cust Character C		ř	10000				į	Direct
Net Utility Plan Commodi Demand Customer Direct Pri Subtr Deductions Commodi		101	Jolai - Hebultai	Hesidential	Commercial	Industrai	Other	Private Fire
Commodi Customer Customer Direct Pri Subtr Deductions Commodi	t in Service							
Demand Customer Direct Pri Subtr Deductions Commodi	4	€9	9,053,663 \$	6,872,598	\$ 1.979.407 \$	53.028 \$	148.629 \$	•
Customer Direct Pri Subkt Deductions Commodi					12,366,165		998,184	,
Direct Pri Subst Deductions Commodi	i		19,961,209	18,978,469	956,613	7,528	18,600	•
Deductions Commodi	vate Fire	ļ			•	- 1		852,122
Deductions Commodi Demand	Subtotal Net Utility Plant in Service	₩	111,349,964 \$	93,803,512	\$ 15,302,185 \$	226,732 \$	1,165,413 \$	852,12
Commodi								
Demand	ţ		3,668,846	2,692,951	878,541	20,287	77.067	•
			33,019,617	27,291,429	5,247,133	62,202	418,853	1
Customer			11,616,838	11,039,986	561,546	4,025	11,281	•
Direct Private Fire	vate Fire		ı			-	•	480,898
Subt	Subtotal Deductions	↔	48,786,200 \$	41,024,365	\$ 6,687,220 \$	86,515 \$	507,202 \$	480,898
Additions								
Commodity	4		79.868	61 118	17 116	316	1 310	
Demand	,		718 812	593,664	114.767	1251	0.0.0 121	
Customer			189,353	178 649	10,461	167,	175	' '
Direct Private Fire	vate Fire		9,133	•		5,	2 ,	9 133
Subt	Subtotal Additions	₩	\$ 997,166	833,431 \$	142,344 \$	1,633 \$	10,625 \$	9,133
Total Data Daga						ľ	- 1	
							9	
Total Commodity		₩	5,464,685 \$	4,240,766 \$		33.057 \$	72.881 \$,
Total Demand			49,182,164		7,233,799			•
Total Customer			8,533,724	8,117,132	405,528	3,570	7,494	,
Total Direct Private Fire	Fire		380,357				•	380,357
lotal Rate Base	Φ	so.	63,560,931 \$	53,612,578 \$	\$ 8,757,309 \$	141,851 \$	668,836 \$	380,357
Required Rate of Return	of Return		9.72%	9.72%	9.72%	9.72%	9.72%	9.72%
Required Operating Income	Income							
Commodity		69	531,036 \$	412,101 \$		3,212 \$	7,082 \$	•
Demand			4,779,326	4,008,965	702,952	10,225	57,184	1
Customer			829,273	788,790	39,408	347	728	1
Direct Private Fire	:			- 1	•	- 1	ı	36,962
Total Requ	Total Required Operating Income	↔	6,176,597 \$	5,209,856 \$	851,000 \$	13,785 \$	64,995 \$	36,962
Weighted Cost of Debt	of Debt		3.35%	3.35%	3.35%	3.35%	3.35%	3.35%
Interest Expense								
Commodity		¥	182 851	441 808 6		9 90	007.0	
Demand		•	1.645.655	1 380 398	242.046	3,521	4,433	' '
Customer			285,542	271.602	13.569	119	251	•
Direct Private Fire	ire		12,727	1	,	2 ,		12.72
Total Intere	est Expense	€>	2,126,774 \$	1,793,898 \$	293,023 \$	4,746 \$	22,380 \$	12,727

Recap Schedules: G-1 Rebuttal, G-2 Rebuttal

ARIZONA WATER COMPANY
Test Year Ended December 31, 2010
Allocation of Rate Base to Classes of Service

A Total ce	7-1]	-
\$ ty Plant in Service	Adjusted Total - Rebuttal	Residential	Commercial	Industrial	Other	Direct Private Fire
ner Private Fire Librotal Net Utility Plant in Service \$ codity nd	7,051,617 \$	5,525,029 \$	1,395,077 \$	52,278 \$ 145,961	79,233 \$	• •
ubtotal Net Utility Plant in Service \$ rodity not	15,305,417	14,671,495	614,496	5,828	13,598	603 325
odity nd ner	86,424,912 \$	73,983,258 \$	10,819,789 \$	204,067 \$	814,472 \$	603,325
	2,717,850	2,129,469	537,694	20.149	30,538	•
	24,460,654	20,730,607	3,395,654	56,257	278,137	•
Direct Private Fire	8,968,806	8,597,335	360,088	3,415	7,968	353.542
ctions	36,500,852 \$	31,457,411 \$	4,293,435 \$	79,821 \$	316,643 \$	353,542
Additions	!					
Commodity	41,139	32,233	8,139	305	462	•
Customer	93,000	89,148	3,734	35	4, 83	
Ulrect Private Fire Subtotal Additions \$	3,666	435,172 \$	63,271 \$	1,192 \$	4,755 \$	3,666
Total Rate Base	50 432 117 \$	42 961 020 \$	6 589 625 \$	125 438 \$	502 584 \$	253 449
						· in
Total Commodity \$ Total Demand	4,374,906 \$	3,427,793 \$	865,522 \$ 5.465.961	32,434 \$ 90,556	49,157 \$	
r Nate Eire	6,429,611	6,163,309	258,142	2,448	5,712	252 440
Total Rate Base	50,432,117 \$	42,961,020 \$	6,589,625 \$	125,438 \$	502,584 \$	253,449
Required Rate of Return	9.72%	9.72%	9.72%	9.72%	9.72%	9.72%
ting Income			;			
Commodity	425,136 \$ 3.826,223	333,099 \$	84,108 \$ 531,160	3,152 \$	43.507	1 1
Customer Princed Princ	624,804	598,926	25,085	238	555	, ,
Total Required Operating Income \$	4,900,792 \$	4,174,780 \$	640,353 \$	12,190 \$	48,839 \$	24,629
Weighted Cost of Debt	3.35%	3.35%	3.35%	3.35%	3.35%	3.35%
Interest Expense Commodity	146 396	9 303		900	20 20 20 20 20 20 20 20 20 20 20 20 20 2	,
ta Eira	1,317,475	1,116,571 206,227	182,893 182,893 8,638		14,981 191	, , 0
Total Interest Expense \$	1,687,478 \$	1,437,493 \$	220,491 \$	4,197 \$	16,817 \$	8,481

Α.	_	Service
COMPAI	Test Year Ended December 31, 2010	Allocation of Rate Base to Classes of Service
TER (ecember	Sase to C
VA WA	Ended D	of Rate E
ARIZONA WATER COMPANY	est Year	location

Rate Base	Total	Adjusted <u>Total - Rebuttal</u>	Residential	Commercial	Industrial	Other	Direct Private Fire
Net Utility Plant in Service Commodity	69	1 008 793	\$ 710.058	\$ 220,662	α α	27 815. \$	i
Demand	•		7,	1,726,719	12,490		
Customer Direct Private Fire		3,041,492	2,813,706	224,122	956	2,708	- 224 201
Subtotal Net Utility Plant in Service	€÷	13,363,720	\$ 10,748,016	\$ 2,221,502 \$	13,504 \$	146,399 \$	234,301
Deductions							
Commodity		375,256	264,205	100,682	22	10,347	•
Customer		1,393,919	1,289,525	102,715	438	1,241	
Direct Private Fire Subtotal Deductions	€9	107,380 5,253,857 \$	\$ 4,240,969	\$ 845,711 \$	5,106 \$	54,692 \$	107,380
Additions							
Commodity		23,965	16,873	6,430	- r	661	ı
Customer		215,683 70.731	1/1,614	41,020	29/	2,753	, ,
Direct Private Fire		5,449		3,30		3 -	5,449
Subtotal Additions	↔	315,827	\$ 253,920	\$ 52,662 \$	320 \$	3,476 \$	5,449
Total Rate Base	49	8,425,690	\$ 6,760,967	\$ 1,428,453 \$	8,718 \$	95,183 \$	132,369
Total Commodity	₩	657,502 \$		\$ 176,409 \$	\$	18,129 \$	1
Total Demand		5,917,516	4,708,426	1,125,425	8,140	75,525	•
Total Customer Total Direct Private Fire		1,718,303	1,589,615	126,618	540	1,530	132 369
Total Rate Base	69	8,425,690	\$ 6,760,967	\$ 1,428,453 \$	8,718 \$	95,183 \$	132,369
Required Rate of Return		9.72%	9.72%	9.72%	9.72%	9.72%	9.72%
Required Operating Income							
Commodity	so	63,893 \$	44,985	\$ 17,143 \$		1,762 \$	•
Customer		166,978	154.472	12 304	25	149	
Direct Private Fire				-	1		12,863
Total Required Operating Income	↔	818,775 \$	657,004	\$ 138,811 \$	847 \$	9,250 \$	12,863
Weighted Cost of Debt		3.35%	3.35%	3.35%	3.35%	3.35%	3.35%
Interest Expense Commodity	6				•		
Demand	9	198,002		4 50903 4 4 57 57 57 57 57 57 57 57 57 57 57 57 57	\$ CZC	\$ 100 2.527	, ,
Customer Direct Private Fire		57,495	53,189	4,237	18	51.	4 429
Total Interest Expense	69	281,927 \$	226,225	\$ 47,797 \$	292 \$	3,185 \$	4,429

	ţ	Adjusted Total - Beby #al	Ceitadriad	- Prioriting	<u>. 4</u>	, e		į	Direct
Rate Base	1	מווסמפרו - ופ	Billianicau	Commercial	되	ingustriai		Omer	Private Fire
Net Utility Plant in Service Commodity	69	262 763 \$		37 880	4		e		
Demand	•		1	444,162			9	30.517	1 1
Customer Direct Private Fire		472,938	449,905	22,576		1		457	• •
Subtotal Net Utility Plant in Service	eπ	3,100,652 \$	2,563,451	\$ 504,619	€		69	32,494 \$	88
Deductions									
Commodity		88,461	75,197	12,753				512	,
Demand		796,152	636,347	149,531		•		10.274	,
Customer Direct Drivate Eiro		294,543	280,199	14,060		•		285	•
Subtotal Deductions	€9	1,179,212 \$	991,743	\$ 176,344	69	,	G	11,070 \$	55
Additions									
Commodity		7,948	6.757	1 146		•		46	•
Demand		71,536	57,177	13,436				923	
Customer		13,824	13,151	099		•		13	1
Direct Private Fire	,	- 1			- 1				3
Subtotal Additions	€9	93,311 \$	77,085	\$ 15,242	↔	ı	€9	982 \$	ε
Total Rate Base	es l	2,014,751 \$	1,648,793	\$ 343,516	69		69	22,406 \$	36
Total Commodity	₩	182,250 \$	154,922	\$ 26,273	₩	ı	↔	1,054 \$	•
Total Demand		1,640,247	1,311,014	308,067		٠		21,166	1
Total Direct Private Fire		192,219 36	182,857	9,176				186	, «
Total Rate Base	မာ	2,014,751 \$	1,648,793	\$ 343,516	s	'	69	22,406 \$	36
Required Rate of Return		9.72%	9.72%	9.72%	.0	9.72%		9.72%	9.72%
Required Operating Income									
Commodity	₩.	17,710 \$	15,055	\$ 2,553	69	•	€9	102 \$	•
Customer		18,393	127,399	78,93		•		2,057	•
Direct Private Fire		, e	3	-				2 ,	
Total Required Operating Income	₩.	195,785 \$	160,223	\$ 33,382	€9	,	€9	2,177 \$	3
Weighted Cost of Debt		3.35%	3.35%	3.35%		3.35%		3.35%	3.35%
Interest Expense	•								
Demand	æ	6,098 \$		\$ 879	69		69	35 \$	1 1
Customer Direct Private Fire		6,432	6,118	307				φ	
Total interest Expense	69	67,414 \$	55,169	\$ 11,494	69		69	\$ 052	

ARIZONA WATER COMPANY Test Year Ended December 31, 2010 Allocation of Rate Base to Classes of Service

		[A]	(B)	[]	2		į
				2	ĵ.	Ū	Ī.
No. 1 Rate Base	2	Adjusted <u>Total - Rebuttal</u>	Residential	Commercial	Industrial	Other	Direct Private Fire
Net Utility Plant in Service Commodity Demand	↔	398,616 \$ 3,587,545	324,289 3,070,805	\$ 66,908 \$		\$ 7,418 \$. ·
Ousconner Direct Private Fire Subtrial Net Hills Dland in Sandon	€	- 1	607,884	41,388		1,006	
Dod odiodio	A	4,636,439	4,002,978	\$ 548,016 \$,	\$ 85,445 \$,
Controlly Commodity Demand		179,726	146,214	30,167	,	3.345	
Customer		1,617,532 412,521	1,384,547	198,258 26,256		34,727	
Ollect Private Fire Subtotal Deductions	65	2,209,779 \$			\$	88	
Additions					•		
Commodity		6,141	4,996	1,031	,	114	•
Customer		55,272 9,924	47,310 9,277	6,775 632	, ,	1,187	
Direct Private Fire Subtotal Additions	6	71 337 €				2	
	→		\$ 585,19	8,437 \$	•	1,316 \$	•
i da i kate base	69	2,497,996 \$	2,148,173 \$	301,772 \$	ω ,	48,052 \$,
Total Commodity	•						
Total Demand	A	225,032 \$ 2,025,285	183,072 \$ 1,733,569	37,772 \$	\$	4,188 \$	
i otal Customer Total Direct Private Fire		247,680	231,532	15,764	•	383	,
Total Rate Base	60	2,497,996 \$	2,148,173 \$	301,772 \$	φ.	48,052 \$	£ 4
Required Rate of Return		9.72%	9.72%	9.72%	9.72%	9.72%	9.72%
Required Operating Income							
Commodity Demand	↔	21,868 \$	\$ 062,71	3,671 \$	'	407 \$,
Customer Direct Private Fire		24,069	168,461 22,499	24,123 1,532		4,225 37	
Total Required Operating Income	€	242,745 \$	208,751 \$	29,325 \$	₩	4.669 \$	
Weighted Cost of Debt		3.35%	3.35%	3.35%	3.35%		3.35%
Interest Expense Commodity	•						
Demand	s s	7,530 \$	6,126 \$	1,264 \$	↔	140 \$	
Customer Direct Private Fire		8,287	7,747	8,306 527	1 1	1,455 13	
Total Interest Expense	€9	83,584 \$	71,879 \$	10,097 \$	•	1.608 \$	

ARIZONA WATER COMPANY
Test Year Ended December 31, 2010
Allocation of Rate Base to Classes of Service

Rate Base Net Utility Plant in Service Commodity December 1				5.			Ī	
Net Utility Plant in Service Commodity	Ac Total	Adjusted Total - Rebuttal	Residential	Commercial	Industrial		Other	Direct Private Fire
Compa	€9		\$ 76,373	\$ 197,197 \$		€7	32,644 \$	•
ר ביושות		2,755,917	1,848,410	854,379			53,128	•
Customer Direct Private Fire		376,484	335,760	39,892			831	14 408
Subtotal Net Utility Plant in Service	€9		\$ 2,260,542	\$ 1,091,468 \$		65	\$6,603 \$	14,408
Deductions								
Commodity		303,236	75,630	195,280			32,326	•
Demand		2,729,126	1,830,440	846,073			52,612	•
Customet Direct Private Fire		520,528	464,224	55,155			1,149	19 921
Subtotal Deductions	€		\$ 2,370,294	\$ 1,096,509 \$		€9	\$6,087 \$	19,921
Additions								
Commodity		335	83	216			36	•
Demand		3,012	2,020	934			28	•
Customer Direct Private Fire		412 16	368	44			۰,	- 16
Subtotal Additions	6 9	!	\$ 2,471	\$ 1,193 \$		\$	\$ 56	16
Total Rate Base	₩	(116,014)	\$ (107,281)	\$ (3,847) \$		69	611 \$	(5,497)
Total Commodity	₩	3,312	\$ 826	\$ 2,133 \$		₩	353 \$	•
Total Customers		(143,632)	(128,096)	(15,219)			(317)	1 1
otal Direct Private Fire Total Rate Base	69	1	(107 281)	\$ (288)		65	611 \$	(5,497)
	•	_II		(100)		•	ll .	
Required Rate of Return		n/a	n/a	n/a	n/a		n/a	n/a
Required Operating Income Commodity	↔	,	, 69	€ 7		69	1	•
Demand							ı	1 :
Direct Private Fire Total Required Operating Income	€9			· · · ·		₩	ω	1 1
Weighted Cost of Debt		3.35%	3.35%	3.35%	3.5	3.35%	3.35%	3.35%
Interest Expense	6		4	6		6	e	
Commodity	9					,		•
Customer Direct Private Fire		1 1		1 1				1 1
Total Interest Expense	e s		\$	\$		65	€	1

		₹	Œ	2	2	Œ		į
		-]		2	Ξ		Ξ
Rate Base	A Total	Adjusted Total - Rebuttal	Residential	Commercial	Industrial	Other		Direct Private Fire
Net Utility Plant in Service Commodity Demand Customer Direct Private Fire	ь	25,662 \$ 230,956 114,601	13,287 132,262 99,718	\$ 11,683 90,969 14,139	\$ 692 7,725 744	€9	⇔	
Subtotal Net Utility Plant in Service	69	371,219 \$	245,266	\$ 116,791	\$ 9,162	69	€9	•
Deductions Commodity Demand Customer Direct Private Fire		4,317 38,852 26,520	2,235 22,249 23,076	1,965 15,303 3,272	116 1,300 172			. ,
Subtotal Deductions	€9	\$ 689'69	47,561	\$ 20,540	\$ 1,588	€	⇔	
Additions Commodity Demand Customer Direct Private Fire	ļ	340 3,058 1,462	176 1,751 1,272	155 1,204 180	102			
Subtotal Additions	₩	4,860 \$	3,199	\$ 1,540	\$ 121	€9	69	
Total Rate Base	€	\$ 066,390	200,905	\$ 97,790	\$ 7,695	ь	69	
Total Commodity Total Comand Total Customer Total Customer Total Direct Private Fire	↔	21,685 \$ 195,162 89,543	11,227 111,763 77,914	\$ 9,872 76,871 11,048	\$ 585 6,528 581	↔		
Total Rate Base	€	\$ 066,390	200,905	\$ 97,790	\$ 7,695	€	٠	1
Required Rate of Return		9.72%	9.72%	9.72%	9.72%	01	9.72%	9.72%
Required Operating Income Commodity Demand Customer Direct Private Fire	es (i				↔	٠	
otal Required Operating moome	A	29,774		\$ 9,503	48	₩	1	•
vergined cost of Debt Interest Expense Commodity Demand Customer Direct Private Fire	69	3.35% 726 \$ 6,530 2,996	3.35% 3.76 3.740 2,607	3.35% \$ 330 2,572 370	3.35% 20 218 119	en es	3.35% 5	3.35%
Total Interest Expense	↔	10,252 \$	6,722	\$ 3,272	\$ 257	69	↔	

ARIZONA WATER COMPANY
Test Year Ended December 31, 2010
Allocation of Operating Expenses to Classes of Service - Summary

	Adjusted									
	Total - Rebuttal		Residential		Commercial	흐	Industrial	Other		Direct Private Fire
↔	4,370,908	↔	3,345,118	69	934,422 \$		23.285 \$	68 083	61	•
	4,644,604		3,866,243		712,135			56,700		1
	2,948,316		2,799,318		145,200		1,057	2,741	-	
69	11,964,006	↔	10,010,679	€9	1,791,757 \$		33,869 \$	127,524	8	17
↔	288,201	69	219,305	69	62,599		1,644 \$	4.653	69 69	•
	2,593,808		2,161,571					31,903		•
	657,412		624,564		31,978		261	609	တ	, 6
69	3,567,635	€9	3,005,439	69	489,539 \$		7,276 \$	37,166	8	28,214
69	154 794	65	12 374	69	127 282 \$		3 047 &	12 001	6	
	273,717	•	21.880	→	225,057		5 389	21 381		
	141,206		11,288		116,109		2,780	11,030	. 0	, ,
69	579,840	69	45,542	€9	468,457 \$		11,216 \$	44,502	2 \$	10,123
69	93,553	69	73.482	69	18.291		392 &	1 388	65	'
	841,977		661,341				3.525	12.492		•
	3,779		122,082		30,388		651	2,306	9	277ء
69	1,094,736	69	856,905	↔	213,298 \$		4,568 \$	16,186	9	3,779
↔	92,169	€	71,106	₩	19,243 \$		479 \$	1,341	€	•
	100,847		83,852		15,555		205	1,235	2	
	64,279		60,944		3,253		53	9	09	i
69	257,300	မာ	215.902	69	38 051 \$		\$ 202	2 636	1	
69	4,999,626	€9	3,721,385	· 69	1,161,836 \$		28,848 \$	87,55	· 69	•
	8,454,954		6,794,887		1,512,340		24,016	123,711	_	•
	3,966,640		3,618,195		326,927		4,772	16,746	9	, 6
8	17.463.517	65	14 134 467	69	3 001 104 \$		57 636 \$	228 013	65	42,238
		.		,	1		ii .		1	
69	754,364	↔	482,260	€9	246.661 \$		4.484 \$	20.960	8	•
	1,188,236		756,353					34.384		,
	594,903		376,491		197,272		3,487	17,654	4	- 13 003
65	2,550,507	49	1,616,489	65	834 359 \$		15 093 \$	72 990	\$	13 074
•	101 406	· 6	80.476	65				1 427		
	912,655	+	724.281	•	172.115			12,840	•	•
	170,261		129,244		37,179		621	3,217		3.584
65	1,187,906	€5	934,000	69	228,419 \$		4,420 \$	17,484	69	3,584
€9	5,607,049	€9	4,198,264	€	1,282,048 \$		30,272 \$	96,464	₩	•
	9,440,151		7,592,298		1,685,146		25,643	137,063	m c	•
	44,983		000,088,0		414,662		5,448	24,28U	_	44 983
€	010101									2

ARIZONA WATER COMPANY
Test Year Ended December 31, 2010
Allocation of Operating Expenses to Classes of Service - Detail

	↔	₩	€9	€9	€9	€9	€9	69	₩	€9
Adjusted Total - Rebuttal			\$ 2,889,815 667,872 74,208	\$ 742,080 253,935 2,285,419	\$ 2,539,354	\$ 1,750,244	38 32 73	\$ 2,942,621 3 288,201 2,593,808 657,412 28,214		\$ 257,300
Operating Expenses Operations & Maintenance Expense Source of Sunbin Expenses	Commodity Demand Customer Direct Private Fire	Subtotal Source of Supply Expenses Pumping Expenses Commodity Demand Customer Direct Private Fire	Subtotal Pumping Expenses Water Treatment Expenses Commodity Demair Customer Direct Private Fire	Subtotal Water Treatment Expenses Transmission & Distribution Expenses Commodity Denandity Customer Direct Private Fire	Subtotal Trans. & Dist. Expenses Customer Accounting Expenses Commodity Dermand Customer Direct Private Fire	Subtotal Customer Accounting Exp. Sales Expenses Commodity Demand Customer Direct Private Fire		'	ì & Amortization	Subtotal Other Taxes
No.	0 to 4 to	9 7 8 8 7 6	25 4 4 5 16 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	23 2 2 3 4 8 5 3 5 4 8 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	26 27 28 27 28 27 38 24 38 34 34 34 34 34 34 34 34 34 34 34 34 34	32 33 33 33 35 34 35 35	36 37 38 39 40 41	24 4 4 4 4 4 4 5 4 5 4 5 4 5 4 5 4 5 4 5	50 52 53 53	55 55

		[A]	<u>@</u>		<u> </u>	2		ū	ī
		Adjusted Total -	:						Direct
ø.		Rebutta	Residential		Commercial	Industrial	ial	Other	Private Fire
	49	895,644	\$ 718,872	372 \$	163,402	69	4,669 \$	8,702 \$	•
		1	2	3 ,	20,10		100	-,401	, ,
oply Expenses	69	1,099,892	\$ 888,666	\$ 999	195,028	€9	5,036 \$	11,162 \$	
		1,992,988	1,481,160	160	462,946		10,115	38,767	,
		896,827	745,202	202	138,744		1,796	11,085	
	ŀ			- 1	_ i		- 1	- 1	
enses	//	2,889,815	\$ 2,226,362	362	601,690	69	11,911 \$	49,853 \$	1
		667,872	519,018	918	136,210		4,164	8,481	1
		/4,208	95,0	, 184 184	11,082		172	871	
ent Expenses	ļ c	742 080	- 1881 101		147 200		4 226		
xpenses	→					o	4,530	9,35	•
		253,935	194,758	758	53,995		1,329	3,854	•
		2,285,419	1,902,1	33	350,662		4,765	27,860	•
	İ	,						i i	, ,
Expenses es	€9	2,539,354	\$ 2,096,891	391 \$	404,656	69	6,093 \$	31,714 \$	
,		•					•	,	
		1 750 244		4	. 00		, ,	- 1	•
		1,730,244	1,00,1240	047	86,740		629	ار -	
ounting Exp.	69	1,750,244	\$ 1,661,246	\$ 95	86,740	8	625 \$	1,633 \$	
		•	•		ı		,		•
		•	•				ı	•	•
					4 1			•	•
es	€9	,	\$	69	,	€	€9	69	•
nses		560 468	421 2	7	117 870		900	9 270	
		1,183,902	987,030	930	180.022		2,426	0,273	
		1,198,073	1,138,072	72	58,460		432	1,108	1 .
Ø	69	2,942,621	\$ 2.556.413	113 \$	356.351	69	5.867 \$	23.811 \$	177
ses		•	•						
		288,201 2.593.808	219,305 2 161 571	505	62,599		1,644	4,653 31,903	1 7
		657,412	624,5	64	31,978		261	609	•
mortization	€9	3,567,635	\$ 3,005,439	\$ 66	489,539	₩	7,276 \$	37,166 \$	28,214
		03 160	77	Ş	070		Ę	770	
		92,169 100.847	71,106	90 92	19,243		479 205	1,341	
		64,279	6,09	44	3,253		73	09	1
	ď	257 300 8	- 100		.			•	4

110

72,874 \$

34,513 \$ 36,574 1,787

Direct Private Fire

Other

Œ

Ⅲ

19,278

25,004 \$

2,431 \$ 22,139 434

					Superstition (Apache Junction, Superior, Miami)	Junction, S	uperior, Miami)	
ë			[A] Adjusted Total	<u> </u>	<u> </u>		<u>[</u>	
Š.	Operating Expenses at Present Rates Operations & Maintenance Evonce		Rebuttal	Residential	Commercial	<u>u</u>	Industrial	
- 0	Commodity	49	3.071.653 \$	2,406,678	\$ 607,689	69	22,772 \$	
ი •	Demand			2,726,030				
4 v	Customer Direct Private Fire		2,010,938	1,927,649	80,737		992	
9	Total Operations & Maintenance	69	8,299,226 \$	7,060,358	\$ 1,134,948	69	\$ 935	
٧ ،	Depreciation & Amortization Expenses	,						
x 0	Commodity	69	216,336 \$	169,502	\$ 42,800	69	1,604 \$	
, ç	Customer		1,947,026	1,650,121	270,288		4,478 186	
=	Direct Private Fire		19.278	667,004	, i		20 ,	
12	Total Depreciation & Amortization	€\$	2,671,695 \$	2,288,422	\$ 332,723	69	6,268 \$	
<u>e</u> ;	Income Taxes at Present Rates	,						
4 4	Commodity	↔	157,228 \$	47,283	\$ 101,126	69	3,188 \$	
. t	Customer		246,916	74,255	158,812		5,006	
12	Direct Private Fire		8,831	CB'CC	160'0/		7,424	
8 9	Total Income Taxes at Present Rates	69	532,523 \$	157,489	\$ 336,829	69	10,617 \$	
9 2	Property Taxes	•						
3 5	Commodity	69	73,640 \$	58,979	\$ 13,442	69	362 \$	
- 6	Certand		662,756	530,809	120,976		3,256	
3 2	Direct Private Fire		3,028	6/9'90	CC / 61	_	232	
54	Total Property Taxes	69	847,648 \$	676,466	\$ 154,173	89	4,149 \$	
52	Other Taxes							
56	Commodity	es.	\$ 660'69	49,439	\$ 12,483	69	468 \$	
7 %	Demand		66,075	55,999	9,173		152	
2 6	Direct Private Fire		41,309	980'89	6c9'I	_	0.	
8	Total Other Taxes	65	170 486 \$	145 036	\$ 23.314		635 \$	1
31	Total Commodity at Present Rates	↔		2,731,881	7	• •		
32	Total Demand at Present Rates		6,139,296	5,037,214	1,005,770		20,289	
33	Total Customer at Present Rates		2,769,075	2,558,677	198,676		3,923	
4 %	Total Direct Filvate File at Present Rates	6	31,250	10 207 777	1 001 00	6	- 202 CZ	1
3 %	ימים לאסומים או דילאסומים או דימים וויים מים ויים מים ויים מים ויים מים ויים מים ויים מים ויים מים ויים מים ויים מים ויים מים מים ויים מים מים ויים מים מים ויים מים מים ויים מים מים מים מים מים מים מים מים מים	9	-	10,321,112	196,106,1	9	¢ coo'zc	Ш
37	Income Taxes at Proposed Rates							
38	Commodity	€9	\$ 888,509	416,983	\$ 170,913	69	4,239 \$	
္က (Demand		947,578	654,842	268,406		6,657	
5 4	Customer		458,781	317,050	129,952		3,223	
- 5	Unect Private Fire	E		4 000 075			- 1	
43	Property Taxes at Proposed Rates	^	z,020,020,2	1,388,875	1/7'69c &	Ð	14,120	
4	Commodity	U	80.087	64 618	4 171	64	350	
45	Demand	•		581,565				
46	Customer		117,701	94,967	20,826		514	
41	Direct Private Fire		2,777		1			
84 d 84 d	Total Property Taxes at Proposed Rates	€9	921,351 \$	741,150	\$ 162,533	69	4,010 \$	
2 9	Total Commodity at Proposed Rates	4	4 034 564 €	3 107 221	370 878	¥	20 432 €	
51	Total Demand at Proposed Rates	•	6.897.988	•	_			
25	Total Customer at Proposed Rates		3,117,784	2,848,063	252,809		4,705	
53	Total Direct Private Fire at Proposed Rates		32,421	1	1	ļ	1.	
54	Total Operating Expenses at Proposed Rates	69	14,082,758 \$	11,623,842	\$ 2,222,789	s	\$ 696'55	ı
22								

3,028

9,831 \$

709 751 37 1,497 \$ 44,142 \$ 76,023 7,799

127,964

857 \$ 7,714 1,260

8,831

\$ 957.81

5,631 \$ 8,843 4,282 10,254

37,481

949 8,537 1,394 10,880

11,253 \$ 17,672 8,556 Recap Schedules: G-1 Rebuttal, G-2 Rebuttal

32,421

147,737

49,855 85,674 12,208

ARIZONA WATER COMPANY
Test Year Ended December 31, 2010
Allocation of Operating Expenses to Classes of Service - Detail

				Supe	Superstition (Apache Junction, Superior, Miami)	on, Superior, Miami)		
			[A] Adjusted	[8]	[0]	[0]	[E]	<u>[</u>
ine 1	Ope		Total -	:				Direct
<u> </u>	Operations & Maintenance Expense Source of Supply Expenses		Rebutta	Residential	Commercial	Industria	Other	Private Fire
7 0	Commodity	↔	629,624 \$	493,318 \$	γ 	4,668 \$	7,075 \$,
ი 4	Demand Customer		134,884	114,315	18,725	310	1,534	•
. 73	Direct Private Fire		1 1			1	•	r
9 1	Subtotal Source of Supply Expenses	69	764,507 \$	\$ 607,633 \$	143,288 \$	4,978 \$	\$ 809'8	
~ α	Pumping Expenses							
ი	Demand		1,337,303	1,047,794	264,569 88 200	9,914	15,026	i
5	Customer		, t	t -	,	104.	477' /	
= !	Direct Private Fire			•	•		•	1
<u>5</u> £	Subtotal Pumping Expenses Water Treatment Expenses	69	1,972,652 \$	1,586,257 \$	352,769 \$	11,375 \$	22,251 \$	
4	Commodity		537 059	420 793	106 251	3 082	VEO 9	
15	Demand		59,673	50,574	8,284	137	679	
6 t	Customer		•	•	•	,	•	,
- 4	Cultotal Water Tradence Fire	ŀ					- 1	
<u>ა</u>	Transmission & Distribution Expenses	A	596,732 \$	471,366 \$	114,535 \$	4,119 \$	6,713 \$	•
20	Commodity		172.790	135.383	34 184	1 281	1 941	
71	Demand		1,555,110	1,317,969	215,882	3,577	17,683	
22	Customer		•	1	ı	. '	. •	•
3 2	Direct Private Fire	1	- 1	- [•	•		,
2, c	Subtotal Irans. & Dist. Expenses	↔	1,727,900 \$	1,453,352 \$	250,066 \$	4,858 \$	19,624 \$	•
28	Commodity							
27	Demand		, ,	. ,		, ,		
28	Customer		1,168,726	1,120,319	46.923	445	1.038	
59	Direct Private Fire		•			?	<u>.</u>	
ස ද	Subtotal Customer Accounting Exp.	€9	1,168,726 \$	1,120,319 \$	46,923 \$	445 \$	1,038 \$	
	Sales Expenses							
3 8	Continuodity		•	•		•		
8 8	Customer				,	•		•
35	Direct Private Fire			. ,				
38	Subtotal Sales Expenses	89	49	•	69	69	69	
37	Administrative & General Expenses							
၀ ၉	Commodity		394,878	309,391	78,122	2,927	4,437	ı
4	Customer		842,213	807,330	33.814	321	9,433 748	
4	Direct Private Fire		110		· ·	ļ.	!	110
5 5	Subtotal A&G Expenses	69	2,068,708 \$	1,821,431 \$	227,366 \$	5,161 \$	14,640 \$	110
\$ 4	Deplectation & Amontzation Expenses		040	200	000	,	,	
4.5	Demand		216,336	169,502	42,800	1,604	2,431	ı
46	Customer		1,947,020	1,050,121	2/0,288	4,478	22,139	ı
47	Direct Private Fire		19.278	667,004	000'61	9 -	†	19 278
48	Subtotal Depreciation & Amortization	69	2,671,695 \$	2,288,422 \$	332,723 \$	6,268 \$	25,004 \$	19,278
4 6 6 0	Other Taxes		;	:	:		,	
5 2	Commodity		63,099	49,439	12,483	468	709	,
52	Customer		41,309	39.598	9,-73	16	37	. ,
53	Direct Private Fire		2	•		: ,	,	2
4	Subtotal Other Taxes	€9	170,486 \$	145,036 \$	23,314 \$	\$ 989	1,497 \$	2

Cochise (Bisbee, Sierra Vista)

\$ 652,398 \$ 459,332 \$ 910,259 \$ 724,271 \$ 910,259 \$ 724,271 \$ 74,271 \$ 1,724,610 \$ 338,795 \$ 269,571 \$ 111,105 \$ 37,644 \$ 269,571 \$ 117,969 \$ 100,130 \$ 29,075 \$ 20,349 \$ 17,969 \$ 117,969	'				i
Rebuttal Reside 652,396 \$ 910,259 \$ 910,259 \$ 910,259 \$ 910,259 \$ 910,259 \$ 910,259 \$ 910,259 \$ 910,259 \$ 910,259 \$ 910,259 \$ 910,259 \$ 91,45					Direct
652,396 \$ 910,259 910,259 910,259 910,259 910,259 910,259 910,259 910,257 910,257 910,257 910,130 910,259	OI	Commercial	<u>Industrial</u>	Other	Private Fire
910,259 584,804 666 66 2,147,527 \$ 1, 37,644 \$ 338,795 11,105 8,559 496,103 \$ 1,193 11,126 \$ 1,193 11,126 \$ 1,193 11,126 \$ 1,196 12,075 29,075 29,075 29,075 11,494 \$ 1,796 11,494 \$ 1,796 11,494 \$ 1,796 11,494 \$ 1,796 11,494 \$ 1,796 11,494 \$ 1,796 11,494 \$ 1,796 11,494 \$ 1,796 11,494 \$ 1,796 11,494 \$ 1,796 11,494 \$ 1,796 11,494 \$ 1,796 11,494 \$ 1,796 11,494 \$ 1,796 11,494 \$ 1,796 11,494 \$ 1,796 11,494 \$ 1,796 11,494 \$ 1,796 11,494 \$ 1,796 11,496 \$ 1,796 11,496 \$ 1,796 11,496 \$ 1,796 11,496 \$ 1,796 11,496 \$ 1,796 11,496 \$ 1,796 11,496 \$ 1,796 11,496 \$ 1,796 11,496 \$ 1,796 11,496 \$ 1,796 11,496 \$ 1,796 11,496 \$ 1,796 11,496 \$ 1,796 11,1918 \$ 1,796 1	32 \$	175,040 \$	38	17,988	. σ
2,147,527 \$ 1, 37,644 \$ 338,795 11,105 8,559 496,103 \$ 17,817 \$ 32,251 17,969 1,193 69,230 \$ 11,126 \$ 11,126 \$ 11,126 \$ 11,494 \$ 29,075 29,075 29,075 11,494 \$ 14,061 \$ 12,478 2,478 88,475 2,911,496 \$ 158,799 88,475 2,911,496 \$ 158,799 88,475 2,911,496 \$ 11,918 \$ 10,540 337,481 \$ 11,918 \$ 107,259 31,145 768,895 88,475 2,478 337,481 \$ 11,918 \$ 107,259 31,145	27.1	173,118 43,093	1,252 184	11,618 521	, ,
37,644 \$ 338,795 11,105 8,559 496,103 \$ 17,817 \$ 32,251 17,969 1,193 69,230 \$ 11,126 \$ 11,136 \$ 11,1318 \$	\$10 \$	391,251 \$	1,474 \$	30,126	99
338,795 111,105 8,559 496,103 \$ 17,817 \$ 32,251 17,836 1,193 69,230 \$ 11,126 \$ 11,126 \$ 11,126 \$ 11,126 \$ 11,126 \$ 11,126 \$ 11,126 \$ 11,136 \$ 12,478 1,1496 \$ 11,918 \$ 11,918 \$ 11,918 \$ 11,918 \$ 11,918 \$ 11,918 \$ 11,918 \$ 11,918 \$ 11,918 \$ 11,918 \$ 11,918 \$ 11,918 \$ 11,918 \$ 11,918 \$	\$ \$	10,100 \$	8	1 038	65
8,559 496,103 \$ 17,817 \$ 32,251 17,969 1,193 69,230 \$ 11,126 \$ 100,130 29,075 700 141,051 \$ 17,494 \$ 24,408 15,681 1,768,43 1,681 2,57,585 \$ 77,586 \$ 15,681 1,0540 2,911,495 \$ 2,911,495 \$ 158,729 88,475 2,911,495 88,475 2,911,495 88,475 2,478 337,481 \$ 11,918 \$ 107,259 31,145 763 151,085 \$,
496,103 \$ 17,817 \$ 32,251 17,969 1,193 69,230 \$ 11,126 \$ 100,130 29,075 720 141,051 \$ 17,494 \$ 24,408 15,681 2,4408 15,681 2,4408 15,681 2,4408 15,681 2,4408 15,681 2,4408 15,681 2,4408 11,918 \$ 1405,843 10,540 2,478 88,475 2,478 337,481 \$ 11,918 \$ 107,259 31,145 763 15,085 \$. 84	8,187	35	66	, a
17,817 \$ 32,251 17,969 1,193 69,230 \$ 11,126 \$ 11,126 \$ 11,126 \$ 12,0,175 29,075 29,075 17,494 \$ 17,494 \$ 17,494 \$ 17,494 \$ 17,494 \$ 17,494 \$ 17,494 \$ 17,494 \$ 17,494 \$ 17,494 \$ 17,494 \$ 17,681 2,911,496 \$ 15,687 11,918 \$ 11,918 \$ 11,918 \$ 11,918 \$ 11,918 \$ 11,918 \$ 11,918 \$ 11,918 \$ 11,918 \$ 11,918 \$	\$ 65	82,721 \$	503 \$	5,461	\$ 8,559
32,251 17,969 1,193 69,230 \$ 100,130 29,075 20,075 20,075 20,075 21,061 \$ 17,494 \$ 24,408 15,681 2,57,585 \$ 1,0540 10,540 2,911,495 \$ 88,475 2,911,495 \$ 10,540 10,759 11,145 11	\$ (20	30,830 \$	94	6,500	
17,969 1,193 69,230 \$ 11,126 \$ 100,130 29,075 720 141,051 \$ 17,494 \$ 24,408 15,685 \$ 736,478 \$ 1,05,40 1,05,40 1,05,40 1,05,40 1,05,40 1,05,40 1,05,40 1,05,40 1,05,40 1,05,40 1,05,40 87,729 \$ 158,739 88,475 2,478 337,481 \$ 11,918 \$ 107,259 31,445 763 151,085 \$					
69,230 \$ 11,126 \$ 100,130 29,075 720 141,051 \$ 17,494 \$ 24,408 15,681 2,4408 15,681 2,4408 15,681 2,4408 15,681 2,4408 15,681 2,4408 15,681 2,4408 15,681 2,4408 10,540 2,911,495 8,475 88,475 88,475 88,475 88,475 11,918 \$ 11,918 \$ 11,918 \$ 11,45 763 11,45 763 11,45 763 11,45 763 11,45 763 11,45 763 11,45 763 11,45 763 11,45 763 11,45 763 11,45 763 11,45 763 11,45 763 11,45 763 11,685 8,475 8,478 8,475 8,478 8,475 8,478 8,475 8,478 8,475 8,478 8,475 8,478 8,475 8,478 8,475 8,478 8,475 8,67	74)	31,092	95 -	6,555	1 193
11,126 \$ 100,130 29,075 720 141,051 \$ 17,494 \$ 24,408 15,681 \$ 2,448 14,05,843 \$ 1,654,78 \$ 1,405,843 \$ 1,654,78 \$ 1,405,843 \$ 1,654,78 \$ 1,1,918 \$ 11,918 \$ 107,259 \$ 11,918 \$ 11,918 \$ 107,259 \$ 11,918 \$ 11,918 \$ 107,259 \$ 11,918 \$ 11,918 \$ 11,918 \$ 11,918 \$ 11,918 \$ 11,918 \$ 11,918 \$ 11,259 \$ 11,250 \$ 11,25	371) \$	117,727 \$	\$ 098	24,820	\$ 1,193
29,075 29,075 17,494 \$ 17,494 \$ 24,408 15,681 2 57,585 \$ 1,405,843 1,605,843 1,0,540 2,911,495 \$ 2,178 87,729 \$ 188,475 2,478 88,475 2,478 337,481 \$ 11,918 \$ 107,259 31,445 763 167,285 \$ 11,918 \$ 107,259 31,445 763 167,285 \$ 167,285	\$ 787	2,960 \$	11 \$, &
29,075 720 141,051 \$ 17,494 \$ 24,408 15,681 \$ 2,4408 1,405,843 1,65,673 10,540 2,911,495 \$ 2,478 337,481 \$ 11,918 \$ 107,259 31,445 763 165,085 \$ 115,085 \$ 1	. 620	26,643	103		
720 17,494 \$ 17,494 \$ 24,408 15,681 2 2,478 \$ 1,681 2 2,57,585 \$ 736,478 \$ 1,405,843 1,67,29 \$ 158,799 88,475 2,478 37,481 \$ 11,918 \$ 107,259 31,445 763 2 4,505,690 \$ 158,788 \$ 1,505,690	449	7,736	30	096	•
17,494 \$ 24,408 15,681 24,408 15,681 2,408 1,585 37,585 31,6478 11,918 87,729 88,475 2,478 33,481 11,918 107,259 31,445 763 107,259 31,445 763 107,259 31,445 763 107,259 31,445 763 107,259 31,445 763 107,259		- 1	Ì	- 1	
17,494 \$ 12,408	4 1		4 (n (5)
15,400 15,585 27,585 736,478 1,405,843 1,405,843 1,0,540 10,540 10,540 10,540 87,729 88,475 2,478 88,475 2,478 11,918 337,481 11,918 11,918 11,085 15,763 11,085 15,763 11,085 15,763 11,085 15,763 16,763 17,635 17,635 17,635 18,763 11,085 18,763 18,763 18,763 19,763 11,085 18,763	***	4,694	/		·
13,001 2 57,585 \$ 756,478 \$ 1,005,843 1,005,400 1,05,400 1,05,40	5 6	4,642	ξ. 4. r	312	•
57,585 \$ 736,478 \$ 1,05,478 \$ 1,05,543	ò .	dcT,r	n,	4 ,	,
736,478 \$ 1,000,843 1,000,843 1,000,843 1,000,840 1,000,8475 2,478 1,45 1,45 1,45 1,45 1,45 1,45 1,45 1,45	\$ \$4	10.491 \$	40 \$	808	4
1,405,843 1,0540 10,540 2,11,495 \$ 2,11,495 \$ 2,11,495 \$ 158,799 88,475 2,478 \$ 10,259 337,481 \$ 11,918 \$ 107,259 31,445 763					1
758,633 10,540 2,911,495 \$ 2,1 87,729 \$ 158,799 88,475 2,478 337,481 \$ 1 11,918 \$ 107,259 31,145 763 151,085 \$ 1	. 121	324,642	2,026	31,324	•
10,540 2,911,495 \$ 2,1 87,729 \$ 158,799 88,475 2,478 337,481 \$ 1 11,918 \$ 107,259 31,145 763 151,085 \$ 1	172	91,264	349	8,148	• ;
87,729 \$ 158,799 88475 2,478 \$ 11,918 \$ 107,259 31,445 763 763 807,182 \$ 5		- 1	, 2		10,540
87,729 \$ (58,799 88,475 2,478 337,481 \$ 11,918 \$ (107,259 31,145 763 151,085 \$ 151,085	9	\$ 000,000	\$,321	148,00	
158,799 88,475 2,478 337,481 \$ 11,918 107,259 31,445 763 151,085 \$ 1	\$ \$	46,135 \$	150 \$		φ
88,475 2,478 337,481 \$ 11,918 \$ 107,259 31,445 763 151,085 \$ 1	45	83,510	272	13,072	•
337,481 \$ 11,218 \$ 107,259 31,145 763 151,085 \$ 1	513	46,527	152	7,283	2,478
11,918 \$ 107,259 31,145 763 15,085 \$ 15,085 \$	\$ 089	176,172 \$	574 \$	27,577	\$ 2,478
107,259 31,145 763 15,085 \$ 1	\$	3,070 \$	12 \$	345 \$	· •
31,145 763 151,085 \$ 1	50	27,630	106	3,103	•
763 151,085 \$ 807,182 \$	91	8,023	31	901	. ;
807,182 \$	\$ 00	38 723 \$	\$ 671	4 348	697
807,182 \$					
	\$ 99 80 80 80 80 80 80 80 80 80 80 80 80 80	239,039 \$	203 \$	27,075	, \$>
	S 6	353,334	2,130	32,428	• •
11,868	3	100,200	,	5 5 1	11,868
\$ 3.189.781 \$ 2.407.495	95 \$	699 359 \$	2 739 \$	68 320	11 868

Operating Expenses Operations & Maintenance Expense Source of Supply Expenses Commodity Demand Customer Direct Private Fire Subtotal Source of Supply Expenses Pumping Expenses Commodity Demand Customer	Direct Private Fire Subtotal Pumping Expenses Water Treatment Expenses Commodity Demand Customer Direct Private Fire Subtotal Water Treatment Expenses Transmission & Distribution Expenses Commodity Demand Customer Direct Private Fire Subtotal Trans. & Dist. Expenses Commodity Demand Customer Accounting Expenses Commodity Demand	Customer Direct Private Fire Subtdal Customer Accounting Exp. Sales Expenses Commodity Demand Customer Direct Private Fire Subtotal Sales Expenses Administrative & General Expenses Commodity Demand Customer Customer Commodity Demand Customer Control No Commodity Demand Customer	Subtotal A&G Expenses Depreciation & Amortization Expenses Commodity Demand Customer Direct Private Fire Subtotal Depreciation & Amortization Other Taxes Commodity Demand Customer Direct Private Fire Subtotal Other Taxes
N	11	8 9 9 8 8 8 8 8 8 8 9 9 9 9 9 9 9 9 9 9	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4

Direct Private Fire

Other

2,164 \$ 2,961 156

5,281 \$

56 1,117 16

1,189

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ARIZONA WATER COMPANY
Test Year Ended December 31, 2010
Allocation of Operating Expenses to Classes of Service - Summary

121

2,243

51 463 54

7,416

101 2,472 4,646 298

	ļ				San Manue	launel	
		[A] Adjusted Total	<u>@</u>		<u> </u>		<u>[</u>
Operating Expenses at Present Rates Operations & Maintenance Expense		Bebuttal	<u>Residential</u>	Col	Commercial	=	<u>Industrial</u>
Commodity	49	374 106 \$	318 010	¥	53 032	e	
Demand	•				43.094	→	•
Customer		161,948	154,061		7.731		•
Direct Private Fire		0	. •				1
l otal Operations & Maintenance Depreciation & Amortization Evnesses	€9	765,499 \$	655,462	89	104,756	€9	
Commodity	6				1	,	
Demand	÷	9,522 \$		₩	1,387	6-3	•
Customer		16 734	69,215		16,264		•
Direct Private Fire		r en	ָהָיה ה'ס		8		•
Total Depreciation & Amortization	€9	112,956 \$	93.313	69	18 450	65	'
Income Taxes at Present Rates					1		
Commodity	↔	(10,531) \$		69	2,864	€>	,
Cinitation		(8,674)	(11,172)		2,359		
Direct Private Fire		(4,904) 10F	(6,316)		1,334		
Total Income Taxes at Present Rates	49	(24 004) \$	(31 053)	64	6 556	€	•
Property Taxes	•				ò	,	•
Commodity	↔	4,450 \$		€9	761	₩	•
Demand		40,052	32,828		6,853		,
Customer		4,694	3,847		803		1
Ulrect Private Fire	,	- 1			,		1
Other Taxes	₩	49,211 \$	40,323	↔	8,417	↔	•
Commodity	64	7 152 \$	080 9	6	160	6	
Demand	•		3,506	9	20,	9	
Customer		3,096	2.945		148		' '
Direct Private Fire		0	: : :		2 ,		٠
Total Other Taxes	€	14,635 \$		€>	2,003	€9	'
Total Commodity at Present Rates	€>			€9	59,975	↔	•
Total Customer at Descent Dates		351,807	277,767		69,394		•
Total Direct Private Fire at Present Rates		181,569	170,457		10,814		•
Total Operating Expenses at Present Rates	69	918,298 \$	770.576	69	140.183	69	1
		11					
Income Taxes at Proposed Rates							
Commodity	₩	48,206 \$	28,865	4	18,361	€9	•
Customer		39,703	23,774		15,122		•
Direct Private Fire		22, 44 /	13,441		8,550		•
Total Income Taxes at Proposed Rates	so	110.476 \$	66.080	69	42 032	65	,
Property Taxes at Proposed Rates					!		
Commodity	69	4,883 \$	3,869	€9	962	€9	•
Demand		43,944	34,822		8,659		•
Customer Direct Orivate Cire		5,150	4,081		1,015		•
Total Property Taxes at Droposed Date:	6	- 1			,		
	7	\$ 088.cc	42,112	n	10,636	A	
Total Commodity at Proposed Rates	69	443,969 \$	365,004	69	75,673	69	•
Total Demand at Proposed Rates			314,707				•
Total Custoffiel at Proposed Kates Total Direct Private Fire at Proposed Rates		209,376	190,448		18,242		•
Total Operating Expenses at Proposed Rates	₩	ı	, 070	,	- 1		
יייי רדי ייין אריייים בייייים ביייייים ביייייים	9	1,057,557 \$	870,159	60	177,877	S	٠

505

388 \$

41 371 44

456

57

3,292 \$ 5,405 686

569

9,384

ARIZONA WATER COMPANY
Test Year Ended December 31, 2010
Allocation of Operating Expenses to Classes of Service - Detail

Exhibit
Schedule G-4 Rebuttal
Page 8 of 14
Witness: Reiker

		A	Adiusted
Line	Operating Expenses	; -	Total -
∄	Operations & Maintenance Expense	ď	Rebuttal
. 2	Commodity	¥	264.90
က	Demand	,	34.30
4	Customer		5
S.	Direct Private Fire		•
9 1	Subtotal Source of Supply Expenses	€9	293,19
~ 00	Pumping Expenses		
, o	Demand		35,64
9	Customer		47,70
7	Direct Private Fire		• 1
12	Subtotal Pumping Expenses	69	83.35
13	Water Treatment Expenses	•	
4	Commodity		41.07
5	Demand		4,56
9 !	Customer		•
7,	Direct Private Fire		•
5 5	Subtotal Water Treatment Expenses	€9	45,63
2 6	I ransmission & Distribution Expenses		
2 2	Continodity		10,22
: 6	Customer		92,03
4 6	Cipied Private Cip		•
2 2	Subtotal Trans & Dist Expenses		- 00,
2 5	Customer Appointing Expenses	99	102,26
2 2 2 2 3 8	Commodity		
27	Demand		,
78	Customer		- 707
59	Direct Private Fire		20, 20
9	Subtotal Customer Accounting Exp.	69	107 676
31	Sales Expenses	•	
35	Commodity		,
33	Demand		•
8 8	Customer		,
g (Direct Private Fire		'
9 6	Subtotal Sales Expenses	↔	•
ò 8	Administrative & General Expenses		
9 6	Confinoaity		25,359
3 4	Clatomer		53,748
14	Direct Private Fire		54.77
45	Subtotal A&G Expenses	69	133 376
43	Depreciation & Amortization Expenses	•	2
4	Commodity		9.622
45	Demand		86,596
9 (Customer		16,734
4 4	Oirect Private Fire		
5 4	Subjudit Depreciation & Amortization Other Taxes	₩	112,956
20	Commodity		7 152
51	Demand		4.387
25	Customer		3,096
53	Direct Private Fire		
54	Subtotal Other Taxes	69	14,635

[A] Adjusted Total -	<u>[a]</u>		<u>5</u>	<u>[</u>		<u>(ii)</u>	
Rebuttal	Residential		Commercial	Industrial		Other	Direct Private Fire
261,801 31,391	\$ 222,545 25,090	\$ \$ \$ 90	37,742 \$ 5,896		€9	1,514 :	es
	•		•	•		! ,	
293,192	\$ 247,635	\$ 35	43,638 \$		65	1,919	69
35,645	30,300	00	5,139	•		206	
9, ,	38,13	ଚ୍ଚ	8,960	'		616	
1	' '		. ,			, ,	
83,351	\$ 68,431	31 \$	14,099 \$		49	822	69
41,074	34,915	15	5,921	•		238	
4,564	3,648	84	857	1		69	
						r 1	
45,638	\$ 38,563	63 \$	\$ 622'9		69	296	8
10,226	8,693	93	1,474	•		59	
92,036	73,56	63	17,286	•		1,188	
	1 1		. ,	, ,			
102,263	\$ 82,256	\$ 99	18,760 \$		69	1,247	49
,	•		r	•		1	
107,676	102.432	32	5 140	, ,		- 104	
		- 1					
107,676	\$ 102,432	32 \$	5,140 \$	1	\$	104	€9
1	•		•	•		,	
	•		• 1	•		ı	
	1			1			•
'	· •	↔	()	,	69	θ,	
25,359	21,55	26	3,656	•		147	
53,748 54,272	42,960	ဥ္က ဇ္	10,095 2,591	•		694	•
0	10,10	2	5,7			20 -	,
133,379	\$ 116,145	\$ \$	16,341 \$		€9	\$ 883 \$	
9,622	8,17	6	1,387	•		56	,
965,91	69,215	5	16,264	•		1,117	•
6,734 3	15,91	<u>o</u>	799			16	•
112,956	\$ 93,313	3	18,450 \$		69	1,189 \$	
7,152	6,080	0	1,031	•		14	•
4,387 3,096	3,50	တ္က မ	824	•		57	•
0	46'7	2	0 ,			ກ '	
14,635 \$	12,532	8	2,003 \$	1	89	101	

Direct Private Fire Œ

Other

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2,914 **\$** 4,833 250

284 \$ 2,947 38

7,997

ARIZONA WATER COMPANY
Test Year Ended December 31, 2010
Allocation of Operating Expenses to Classes of Service - Summary

		Irial	,	•	, ,			' '	•		•	1	•		'		' '	'		,	•	•	•	'	' '	•	'	1	۱		•	•	, ,			•	•			,	,	1	· ·
	[a]	Industrial																										ļ	1														
Oracle			69			€>	e	9			,,	69			€9	v	>		-	()	↔			u	· 69	•		•	,		69			69		€9			69	65			မ
Ö	[5]	Commercial	26,284	27,591	25,51	64,177	2 560	16.824	1,569		20,952	5,049	10,647	5,480	21,176	£18	5 559	089		6,857	614	644	240	1 408	35.125	61,265	18,270	444.000	14,660		8,846	18,654	000,6	37,101		737	0,629	- - -	8,176	39 041	70,342	22,521	131,904
			69			€>	¥	>			A	49			65	6)			€9	69			4	÷ 69			6	P		↔			69		₩			€9	69			€9
	[8]	Residential	127,395	192,683	207,101	471,376	12 407	117,489	23,038	- 00	152,934	6,349	13,388	068'9	26,626	3 163	28,465	3,481		35,109	2,974	4,498	3,532	11 003	152,287	356,523	188,239	207 040	097,049		11,852	24,992	700,21	49,706		3,193	26,730	ָּבָּ קַבְּי	35,443	157 820	368,398	194,244	720,462
			₩			↔	69				9	↔			49	€.	•			19	↔			6	•	•		6	9		69			€9		↔			69	69			69
	[A] Adjusted Total -	Rebuttal	156,594	225,107	20,10	543,550	15 251	137,260	24,644	477 455	661,771	11,965	25,231	12,985 106	50,288	3,859	34.730	4,247	12	42,848	3,655	5,255	3,778	12 688	191,324	427,582	207,505	118	020,020		21,890	46,160 23.756	122	91,929		4,029	00,239	13	44,735	201.419	450,040	218,463	870,058
			69			€	69	•		6	9	69			€9	69	•			A	છ			647	69			4	9		49			eσ	,	,,			မာ	ь			69-
		Operating Expenses at Present Rates Operations & Maintenance Expense	Commodity	Demand Customer	Direct Private Fire	Total Operations & Maintenance Depreciation & Amortization Expenses	Commodity	Demand	Customer Discase Princes	Direct ritivate rille Total Depreciation & Amodization	Income Taxes at Present Rates	Commodity	Demand	Customer Direct Private Fire	Total Income Taxes at Present Rates	Commodity	Demand	Customer	Ulrect Private Fire	Other Taxes	Commodity	Demand	Cirect Private Fire	Total Other Taxes	Total Commodity at Present Rates	Total Demand at Present Rates	Total Direct Brings Fire of Present Rates	Total Operating Expenses at Present Rates		Income Taxes at Proposed Rates	Commodity	Customer	Direct Private Fire	Total Income Taxes at Proposed Rates	Property Laxes at Proposed Rates	Demand	Customer	Direct Private Fire	Total Property Taxes at Proposed Rates	Total Commodity at Proposed Rates	Total Demand at Proposed Rates	Total Customer at Proposed Rates Total Direct Private Fire at Proposed Rates	Total Operating Expenses at Proposed Rates
	Line																																										

106

2,379 \$

78 705 86

870

68 113 6

3,912 9,794 996

567 \$ 1,196 616

3,269

4,558 \$ 11,301 1,698		\$ 925	
4 5 5		17,	
€9		\$	
1 1 1	•	-	
⇔		8	
39,041 70,342 22,521	1	131,904	
69		€9	
157,820 368,398 194,244	,	720,462	
⇔		69	
201,419 450,040 218,463	136	870,058	
↔		8	

122

5,000

1,192 2,514 1,294

99 109

103

Direct Private Fire

E

ARIZONA WATER COMPANY
Test Year Ended December 31, 2010
Allocation of Operating Expenses to Classes of Service - Detail

	(E)	Other	, ,		, ,	109 \$	1,870	066		2,859 \$	284	38	1	320 \$	235	2,442	1 1	2,677 \$,	•	158	158 \$,	6	4	1.266	92	1.874 \$		284	38	3,269 \$	89	113	0 ,	187 \$
			6	•		€9				69				69				69				49				69				69				69				69
	[0]	Industrial	•	•		,	•	•	. ,	•	,	•	•	'	•	•	, ,		,	•	•				,	1 1		' '	•			, ,	•	1 .	•	,		l l
Oracle	[0]	Commercial	6 7	268		\$ 559	16,863	5,651	, ,	22,513 \$	2.559	208		2,767 \$	2.121	13,939	. ,	16,060 \$	ı	•	6,517	6,517 \$	ı	, ,	ŧ	69	9	7,225	3,784	15.665 \$		2,560 16.824	1,569	20,952 \$	614	644	740	1,498 \$
	(<u>e</u>)	Residential C	419 \$			4,389 \$	81,729	39,462		121,191 \$	12.403	1,450	, ,	13,853 \$	10.280	97,343		107,623 \$	1	•	95,724	95,724 \$,		,	\$	22 664	50,459	55,574	128,597 \$		12,407	23,038	152,934 \$	2.974	4,498	2005	11,003 \$
	[A] Adjusted	Pebuttal	515 \$			5,153 \$	100,461	46,102		146,564 \$	15.246	1,694	, ,	16,940 \$	12,636	113,723	. ,	126,359 \$,	•	102,400	102,400 \$,	•	69	27 736	58,950	59,450	146,136 \$		13,251	24,644	177,155 \$	3.655	5,255	2,1,0	12,688 \$
			↔			69				↔				€9				69				69				69				89				69				69
						Se																																
	line Operation Expenses		Commodity	Demand	Direct Private Fire	Subtotal Source of Supply Expenses	Commodity	Demand Customer		Subtotal Pumping Expenses Water Treatment Expenses	Commodity	Demand	Customer Direct Private Fire	Subtotal Water Treatment Expenses	Commodity	Demand	Customer Direct Private Fire	Subtotal Trans. & Dist. Expenses	Commodity	Demand	Oustomer Direct Private Fire	Subtotal Customer Accounting Exp.	Sales Expenses Commodity	Demand	Customer Direct Private Fire	Subtotal Sales Expenses	Administrative & General Expenses Commodity	Demand	Customer Direct Private Fire	Subtotal A&G Expenses	Depreciation & Amortization Expenses	Demand	Customer Direct Private Fire	Subtotal Depreciation & Amortization	Commodity	Demand Customer	rate F	Subtotal Other Taxes

ARIZONA WATER COMPANY
Test Year Ended December 31, 2010
Allocation of Operating Expenses to Classes of Service - Summary

Exhibit Schedule G-4 Rebuttal Page 11 of 14 Witness: Reiker

Operating Expenses at Present Rates Operations & Maintenance Expense Commodity Demand Customer Direct Private Fire Total Operations & Maintenance Depreciation & Amortization Expenses Commodity Demand Customer Direct Private Fire	Income Taxes at Present Rates Commodity Commodity Commodity Denand Customer Direct Private Fire Total Income Taxes at Present Rates Property Taxes Commodity Demand Customer Direct Private Fire Total Property Taxes Commodity Demand Customer Total Property Taxes Commodity Demand Customer Total Commodity Total Commodity Total Commodity at Present Rates Total Commodity at Present Rates Total Customer at Present Rates	Total Direct Private Fire at Present Rates Total Operating Expenses at Present Rates Income Taxes at Proposed Rates Commodity Demand Customer Direct Private Fire Total Income Taxes at Proposed Rates Commodity Demand Customer Total Property Taxes at Proposed Rates Commodity Demand Customer Direct Private Fire Total Commodity at Proposed Rates Total Commodity at Proposed Rates Total Customer at Proposed Rates Total Customer at Proposed Rates Total Customer at Proposed Rates Total Customer at Proposed Rates Total Operating Expenses at Proposed Rates
No NO 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	. 5 5 5 4 5 9 5 5 5 5 5 5 5 5 5 5 5 5 5 5	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3

₹ F	Adjusted Total		Ξ.				Ē	
- ď	l otal - Rebuttal	Residential	Commercial		Industrial		Other	Direct Private Fire
69	98,524 \$	24,573	\$ 63,	63,448 \$,	↔	10,503 \$	
	12,170	10,854	<u> </u>	1,290			27	
€	147,769 \$	60,293	\$ 76,3	76,231 \$	' '	69	11,245 \$	
	7,929 \$	1,978	\$	106 \$	•	↔	845 \$	
	71,359	47,861	22,	22,123	•		1,376	
	374	- ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '	-	cc			77 ,	
	89,429 \$	58,549	\$ 28,	28,264 \$	'	8	2,242 \$	
	(21,764) \$	(13,066)	€9	\$ (0,870)	'	69	(828) \$	
	(22,169)	(13,309)		016)	•		(843)	
	(4,485)	(2,693)		(1,622)			(171)	
	(48,530) \$	(29,068)	69	(17,508) \$	'	€9	(1,842) \$	
	(152) \$	(69)	69	(81) \$,	69	(12) \$	
	(1,366)	(534)			•		(107)	
	6,581	2,573		3,494	•		515	
Ì	5,068 \$	1,980	\$ 2,6	2,688 \$		69	\$ 968	
	900	Č	•			•		
	3/8 143	D 0	e e	244 **		æ	04 04 €	
	47	42		ţ 'c	٠ ،		n c	
	: 0	,		,	•		,	
	\$ 295	231		293 \$,	₩	43 \$	
		13,519	9'09	60,847 \$	•	69		
	85,041	9,8,86	747	9.5	•		1,143	
	24,081	19,487	4,	4,201	1 1		393	
	194,302 \$	91,985	\$ 89,967	\$ 296	,	မာ	12,085 \$	
	(9,746) \$	(10,288)	₩	229 \$	•	↔	313 \$	
	(9,927)	(10,479)		233 47	' '		319 65	
	29				1		•	
	(21,652) \$	(22,887)	s,	\$ 609	1	₩	\$ 269	
	(206) \$	(89)	€9	121) \$	•	φ,	(17) \$	
	(1,858)	(613)		(1,088)	•		(157)	
	8,956	2,954		244	•		758	
	\$ 806'9	2,273	\$ 4,0	4,035 \$	' '	8	583 \$	
	6 070	000	•	ė.		•		
	\$ 6/0'06 96 790	16,289	900	ກີ ຄຸ້ນ ກີ		Ð	7 255	
	28,932	20,441	7,620	320	•		871	

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ARIZONA WATER COMPANY
Test Year Ended December 31, 2010
Allocation of Operating Expenses to Classes of Service - Detail

Operating Expenses Operations & Maintenance Expense Source of Supply Expenses Commodity Demand	Cusionner Direct Private Fire Subtotal Source of Supply Expenses Pumping Expenses	Commodity Demand Customer Direct Private Fire	Subtotal Pumping Expenses Water Treatment Expenses Commodity Demand	Customer Customer Direct Private Fire Subtotal Water Treatment Expenses Transmission & Distribution Expenses Commodity Dermand	Customer Direct Private Fire Subtotal Trans. & Dist. Expenses Customer Accounting Expenses Commodity Demand	Direct Private Fire Subtotal Customer Accounting Exp. Sales Expenses Commodity Demand Customer Direct Private Fire Subtotal Sales Expenses Administrative & General Expenses	Continuousy Demand Customer Customer Direct Private Fire Subtotal A&G Expenses Commodity Demand Customer Direct Private Fire Subtotal Depreciation & Amortization Other Taxes	Commodity Demand Customer Direct Private Fire Subtotal Other Taxes
Line 1 No. 1 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	1007	o 6 C T	5 5 4 5	20 18 19 20 21	22 23 25 23 25 25 25 25 25 25 25 25 25 25 25 25 25	32 32 33 34 35 36 36 37 38 38 38 38 38 38 38 38 38 38 38 38 38	3 6 6 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	52 53 54

ARIZONA WATER COMPANY Test Year Ended December 31, 2010

					Winkelman				
:			[A] Adjusted	[8]	[0]	[0]	(E)		[7]
S C	Operating Expenses at Present Rates		Total - Rebuttal	Besidential	Commercial	Industrial	Other		Direct Private Fire
_	Operations & Maintenance Expense							•	
0 0	Commodity	\$	17,634 \$	9,130 \$		476 \$	•	₩	1
ი 4	Customer		26,195 16,606	15,001	10,318	876	•		ı
က	Direct Private Fire		20,5	<u>r</u>	} ·	3 ,			
9 1	Total Operations & Maintenance	€9	60,435 \$	38,580 \$	20,394 \$	1,460 \$	•	69	ı
~ 60	Depreciation & Amonization Expenses Commodity	4	1 410	725	0 0 0	e G		6	
	Demand	>	12.771	7.314	5.030	38 \$ 427	•	9	
10	Customer		6,106	5,313	753	40	'		ı
Ξ	Direct Private Fire				•		•		•
2 5	Total Depreciation & Amortization	₩	20,297 \$	13,362 \$	6,430 \$	\$ 505	•	8	
5 4	Income Laxes at Present Kates	6	6		Ö	e C		•	
5	Demand	9		(042)		30	1 1	Ð	1
16	Customer		6	(1,008)	1,035	21.	•		,
17	Direct Private Fire			. '	. •	1	,		•
8	Total Income Taxes at Present Rates	€9	334 \$	(3,581)	\$ 3,677 \$	238 \$	3	69	
<u>ი</u> მ	Property Taxes	•			,			,	
3 5	Commodity	€>	631 \$	341 \$		\$ 10	•	69	
2 %	Curtomor		5,675	3,066	2,435	175	•		1
3 2	Direct Private Fire		2,604	1,407) LL'1	œ .			
54	Total Property Taxes	69	8,910 \$	4.813	\$ 3.823 \$	274 \$		69	1
22	Other Taxes								
92	Commodity	69	391 \$	202	178 \$	11 \$	•	69	i
27	Demand		580	332	229	19	•		•
200	Customer		368	320	45	2	•		
8 6	Total Other Taxes	6		- 330	7		•	6	
3 6	Total Commodity at Bresent Rates	9 6	77.153		4 7C4 6	\$ 70 \$ 000		9 6	1 1
35	Total Demand at Present Rates	•			19 787			•	· •
33	Total Customer at Present Rates		25,778	20.481	4,999	297	,		ı
34	Total Direct Private Fire at Present Rates		•			•	'		
32	Total Operating Expenses at Present Rates	₩.	91,315 \$	54,028	\$ 34,777 \$	2,510 \$		\$	
36	Income Taxes at Proposed Rates								
38	Commodity	64	\$ 896		\$ 777 \$	\$ 76	•	65	•
39	Demand	•	5,923		4,452		•		
9	Customer		3,452	745	2,595	112	'		,
4 ;	Direct Private Fire				•	- 1			-
24 6	Total Income Taxes at Proposed Rates	↔	12,272 \$	2,649 \$	\$ 9,224 \$	\$ 668	'	↔	
3 4	Commodity	€9	\$ 969	372	305	18	•	69	
45	Demand	•	6.266	3.351	2.749	166	•	,	ı
46	Customer		2,875	1,538	1,261	9/	•		ı
47				J	1	- 1	•		
84 4 80 64	Total Property Taxes at Proposed Rates	⇔	9,837 \$	5,261	\$ 4,315 \$	261 \$	•	⇔	
20	Total Commodity at Proposed Rates	₩	23,036 \$		\$ 11,334 \$	637 \$	•	છ	1
52	Total Demand at Proposed Rates Total Customer at Proposed Rates		51,736	27,277	22,778 6 704	1,682			
23	Total Direct Private Fire at Proposed Rates		101,02	26,300	to / o	000			,
24	Total Operating Expenses at Proposed Rates	€9	104,179 \$	\$ 20,707 \$	40,815 \$	2,657 \$	•	69	
22		I							

Recap Schedules: G-1 Rebuttal, G-2 Rebuttal

ARIZONA WATER COMPANY
Test Year Ended December 31, 2010
Allocation of Operating Expenses to Classes of Service - Detail

7	Adju	Rep	•	9			69					69					6	0					69						99					es	•				e	9					₩					€9
	Operating Expenses	Operations & Maintenance Expense	Commodity	Demand	Customer Direct Delivers First	Subtotal Source of Street of	Subtotal Source of Supply Expenses Pumping Expenses	Commodity	Demand	Customer	Direct Private Fire	Subtotal Pumping Expenses	Water Treatment Expenses	Commodity	Customer	Direct Private Fire	Subtotal Water Treatment Expenses	Transmission & Distribution Expenses	Commodity	Demand	Customer		Subtotal Trans. & Dist. Expenses	Customer Accounting Expenses	Commodity	Demand	Direct Drivets Fire	Subtotal Customer Accounting Fire	Sales Expenses	Commodity	Demand	Customer	Direct Private Fire	Subtotal Sales Expenses	Administrative & General Expenses	Commodity	Customer	Direct Private Fire	Subtotal A&G Expenses	Depreciation & Amortization Expenses	Commodity	Demand	Customer	Direct Private Fire	Subtotal Depreciation & Amortization	Commodity	Demand	Customer	Direct Private Fire	Subtotal Other Laxes
	Line	o V	- 8	ი,	4 r.	စ	7	ω	თ	9	= ;	2 5	2 5	<u> </u>	9	17	18	19	8	77	22	3 3	24	£ 5	9 6	28	2 6	8 8	31	32	33	34	32	36	37	8 8	9	41	42	43	4	45	9 1	/4 v	o 4 64	20	51	52	22	5

	[-]	Direct Private Fire	↔			69			,	6	,			φ.		•		€9	,			69	,	•	•	€	•			€	•	•		·	•		• •	9
	Ē	Other													,				•	•		ľ	•	'			•	•	, ,	•	•	•	•	•	'	• •		-
- 1	[0]	Industrial	- (71 ,	,	13 \$	177	146		323 \$	179	25		203 \$	44	496		540 \$,	•	69 -	\$ 69	ı	•		€	75	198	- 1	312 \$	38	427	- 1	\$ 505	17	19 2	- 1	32 \$
Winkelman	Ξ	Commercial	17 \$	2 ,	- 1	153 \$	2,982	1,722		4,704 \$	3,013	290		3,303 \$	750	5,840		\$ 065'9	,	• ;	1,311	1,311 \$	•			<i>↔</i>	1,265	2,330	- 1	4,333 \$	646	5,030 753	- i	6,430 \$	178	229 45	- 1	452 \$
[8]	<u>.</u>	Residential	20 \$	3 ,	- [217 \$	3,391	2,504		\$ 968'5	3,427	421	- 1	3,848 \$	853	8,490		9,343 \$	•		3,240	9,246 \$. ,	.	1,439	3,388 5,203	- 1	10,029 \$	735	7,314 5,313	- 1	13,362 \$	202	332 320	- 1	822 \$
Ā	Adjusted	l otal - Rebuttal	38 \$			\$ 505	6,550	6,0,4	- 1	10,923 \$	6,619	- 135	- 1	7,354 \$	1,647	14,826	- 1	16,473 \$	ŧ	10 626	- 1	10,626 \$,	,	' '	5	2,779	5,979	- 1	4,0/4	1,419	6,106	- 1	\$ 162'02	391	368	- [1,339 \$
			₩		4)				₩				o				/P				₩				€9			6	9				9				A

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ARIZONA WATER COMPANY Test Year Ended December 31, 2010 Distribution of Rate Base by Function

Exhibit
Schedule G-5 Rebuttal
Page 1 of 7
Witness: Reiker

	Plant Classification	Intangible Plant	Source of Supply Plant	Pumping Plant	Water Treatment Plant	Transmission & Distribution Plant	General Plant	Subtotal Gross Utility Plant		Less:	Accumulated Depreciation	Net Plant in Service		Less:	Advances in Aid of Construction	Net Contributions in Aid of Construction	Deferred Income Tax	Customer Deposits	Subtotal Deductions		Add:	Working Capital	Net Regulatory Asset / (Liability)	Subtotal Additions		Total Rate Base
Line No	-	7	က	4	S	9	7	8	თ	10	7	12	13	4	15	16	17	18	19	20	2	22	23	24	25	56

	Œ.		[8]		[5]		[0]		(E)	Ì	[-]		<u>(</u>
Γ-	Adjusted Test Year - <u>As Filed</u>	યા	Rebuttal <u>Adjustments</u>	∢ ш	Adjusted Total - Rebuttal	3	Commodity		Demand		Customer	ŒĮ	Direct Private Fire
69	62,287	€9	, 0 , 1			69	6,229 \$			€9	•	↔	'
	13,875,149		32,829		13,907,978		1,390,798		12,517,180				. ,
	12,020,942		(82,867)		11,938,075		1,193,807		10,744,267		•		,
	104,945,645		(127,583)	_	104,818,062		7,798,415		70,185,737		25,723,631		1,110,279
	8,449,073		1,892		8,450,965		668,262		6,014,356		1,695,090		73,258
↔	151,472,461	69	(173,918) \$		151,298,543	€>	12,269,629 \$			69	27,418,721	69	1,183,536
	39,957,566		(8,987)		39,948,579		3,215,965		28,943,688		7,457,512		331,414
€>	111,514,896	69	(164,931) \$	-	111,349,964	↔	\$ 699,650,6		81,482,970	€9	19,961,209	€	852,122
	17,126,507		ı		17,126,507		1,285,371		11,568,338		4,101,217		171,581
	21,160,992		•		21,160,992		1,538,586		13,847,270		5,552,895		222,242
	10,111,714		,		10,111,714		813,646		7,322,816		1,891,171		84,081
	386,987				386,987		31,244		281,194		71,556		2,993
€9	48,786,200	69	€9		48,786,200	₩	3,668,846 \$	Ì	33,019,617	es-	11,616,838	€9	480,898
	1,514,030		(68,864)		1,445,166		116,144		1,045,297		271,360		12,366
	(448,000)		•		(448,000)		(36,276)		(326,485)		(82,007)		(3,233)
69	1,066,030	69	(68,864)		997,166	€9	79,868 \$		718,812	↔	189,353	€9	9,133
6	907 107 63	6	@ \JUZ CCU/		200 000		0 404 605 6		10100101	ļ	107 500 0	e	735 095

Exhibit Schedule G-5 Rebuttal Page 2 of 7 Witness: Reiker

Total Rate Base

	₹		[8]	[0]		[c] [D] [E]	(E)		(F)		[6]
	Adjusted Test Year - <u>As Filed</u>		Rebuttal <u>Adjustments</u>	Adjusted Total - Rebuttal		Commodity	Demand		Customer	ΔI	Direct Private Fire
69	14,996 9,147,660	₩	\$ (2.699)	14,996	69	1,500 \$		φ.	1	€9	1
	10,135,447		32,829	10,168,276		1.016.828	9 151 448	o «	•		,
	10,320,656		(82,867)	10,237,789		1,023,779	9,214,010	0			•
	5 985 412		(34,604)	78,712,575		5,867,023	52,803,210	0	19,282,253		760,089
65	114 351 350	6	ı	5,986,613	1		4,341,691	-	1,118,425		44,087
•		•	(31,140)	114,260,210	9	8,305,536 \$	83,749,821		20,400,678	↔	804,176
-	27,844,496		(9,197)	27,835,298		2.253.919	20.285.258	α	5 005 264		000
69	86,506,854	69	(81,942) \$	86,424,912	€9	7,051,617 \$	63,464,553	₩ 0	-	€9	603,325
	11,305,977			11,305,977		822,506	7,402,558	80	2.964 072		116 841
	7 267 062			17,604,075		1,280,691	11,526,220	0	4,615,235		181,928
	322,847			7,267,953		588,511	5,296,598	m	1,330,401		52,443
65	36 500 852	6		322,647	ŀ	26,142.02	235,278.17	7	59,097.26		2,329.56
→	200,000,00	9	1	36,500,852	69	2,717,850 \$	24,460,654	89	8,968,806	₩	353,542
	1,016,691		(60,634)	956,056		77,415	696,736	"	175,006		6.899
6	(448,000)		- 1	(448,000)		(36,276)	(326,485)	<u>(6</u>	(82,007)		(3,233)
9	160,000	A	(60,634) \$	508,056	↔	41,139 \$	370,251	€9	93,000	69	3,666
€	50,574,693	6	(142 57B) \$	50 432 117	6	4 000		ľ			

Recap Schedules:

Test Year Ended December 31, 2010	Distribution of Rate Base by Function
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Exhibit
Schedule G-5 Rebuttal
Page 3 of 7
Witness: Reiker

	₩	69	69	₩	€	by .	
	Plant Classification Intangible Plant Source of Supply Plant Pumping Plant Water Treatment Plant Treatment Plant	General Priant Subtotal Gross Utility Plant I ess:	Accumulated Depreciation Net Plant in Service	Less: Advances in Aid of Construction Net Contributions in Aid of Construction Deferred Income Tax Customer Deposits Subtotal Deductions	Add: Working Capital Net Regulatory Asset / (Liability) Subtotal Additions	Total Rate Base	
Line	- 7 E 4 G 9 L	- 8 o C	2 2 2 2	2 4 5 9 7 8 6 6	22 22 22 23 23 24 25	2	

<u>\</u>	Adjusted Test Year - <u>As Filed</u>	\$ 44,054 1,649,595 1,715,876 143,171	13,999,702 1,440,538 20,992,936		\$ 13,485,994	1,632,190 1,759,413 1,823,964	\$ 5,253,857	318,702	318 702
		4 r2 r0 - r	7 80 9		4	0 % 4 0	\$	7	6
[8]	Rebuttal Adjustments		(122,677) 443 (122,234)		(122,273)	, , ,		(2,875)	(2.875)
		↔	e.)	69		69		6
[0]	Adjusted Total - Rebuttal	44,054 1,649,595 1,715,876 143,171	1,440,981	7,506,982	13,363,720	1,632,190 1,759,413 1,823,964	5,253,857	315,827	215 827
n 9	O)	€	6	9	₩		₩		6
Cocnise (Bisbee, Sierra Vista) [D]	Commodity	4,405 164,960 171,588 14,317	1,119,548	569,625	1,008,793	112,587 121,362 138,401	375,256	23,965	23 065
ista)		€9	6	9	€9		€9		6
<u> </u>	Demand	39,648 1,484,636 1,544,288 1,28,854	10,075,928 932,401	5,126,621	9,079,135	1,013,281 1,092,262 1,245,610	3,377,302	215,683	215 683
		↔	e	4	€9		↔		u
(F)	Customer	1 1 1 1	376,014	4,722,716	3,041,492	470,108 506,751 408,486	1,393,919	70,731	70 731
	ď	↔	6	o	69		69		6
[9]	Direct Private Fire	1 1 1 1	28,966	363,613 129,513	234,301	36,215 39,037 31,468	107,380	5,449	5 449

ARIZONA WATER COMPANY Test Year Ended December 31, 2010 Distribution of Rate Base by Function

Exhibit
Schedule G-5 Rebuttal
Page 4 of 7
Witness: Reiker

Plant Classification Intangible Plant Source of Supply Plant Pumping Plant Water Treatment Plant Transmission & Distribution Plant General Plant Subtotal Gross Utility Plant	Less: Accumulated Depreciation Net Plant in Service	Less: Advances in Aid of Construction Net Contributions in Aid of Construction Deferred Income Tax Customer Deposits Subtotal Deductions	Add: Working Capital Net Regulatory Asset / (Liability) Subtotal Additions	Total Rate Base	
Line 1 1 0.00 2 3 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	6 2 1 2 6	5 4 5 5 7 1 8 6 5	2 2 2 2 2 3	25 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	n

	·	↔					6	•	ļ	₩.				6	7		₩.	69
₹	Adjusted Test Year - <u>As Filed</u>	484	170,333	400,738	1,423,285	1,915,019	403,334	† † † † †	1,313,974	3,100,560	61,297	690,109	416,036	11,769	212,871,1	95,402	95,402	2,016,750
	41	€					6	9		↔					9		69	69
[9]	Rebuttal Adjustments	,				. ?	- [FD.	6	8 26			,		,	(2,091)	(2,091) \$	(1,998) \$
	∢ @							_										
[0]	Adjusted Total - Rebuttal		178,993	406,758	1,423,285	1,915,019	- 1	4,414,635	1,313,983	3,100,652	61,297	690,109	416,036	11,769	1,179,212 \$	93,311	93,311 \$	2.014.751 \$
	Com	€9						69		69								
[0]	Commodity	48	17,899	40,676	142,329	137,744	35,995	374,691	111,928	262,763	4,244	47.776	35,439	1,002.53	88,461	7,948	7,948	182 250
		₩						↔		69					€		€9	4
(E)	Demand	436	161,094	366,082	1,280,957	1,239,692	323,954	3,372,215	1 007 352	2,364,863	38.192	429 987	318.950	9,022.80	796,152	71,536	71,536	1 640 247
		€9						69		63					69		€>	6
E	Customer	•	,			537,483	130,121	667,605	197 667	472,938	4 8 8 8	212,306	61 636	1,743.62	294,543	13,824	13,824	400 040
	Privi	69						₩		69					69		€	
[6]	Direct Private Fire	'	•	•	•	10	2	124	č	88	`	' ;	5 5	0.32	55	ю	,	100

ARIZONA WATER COMPANY Test Year Ended December 31, 2010 Distribution of Rate Base by Function

Exhibit
Schedule G-5 Rebuttal
Page 5 of 7
Witness: Reiker

Plant Classification intangible Plant Source of Supply Plant Source of Supply Plant Pumping Plant Water Treatment Plant Transmission & Distribution Plant General Plant Subtotal Gross Utility Plant	Less: Accumulated Depreciation Net Plant in Service	Less: Advances in Aid of Construction Net Contributions in Aid of Construction Deferred Income Tax Customer Deposits Subtotal Deductions	Add: Working Capital Net Regulatory Asset / (Liability) Subtotal Additions	Total Rate Base
No. 1 1 No. 2 2 4 4 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	o 6 t t i	2 4 5 9 7 8 6 8	2 2 2 2 2 2	252 26 27 28 28 28 28 28 28 28 28 28 28 28 28 28

[9]		Private F																	
			49	•					69		€9					↔		€9	89
Ŀ		Customer	,	,	•	•	995,124	48,755	1,043,879	393.602	650,277	164,196	174,647	71,992	1,686.89	412,521	9,924	9,924	247,680
			6						₩		69					es.		69	69
Ш	· ·	Demand	544	570,689	884,501	95,970	3,850,581	377,473	5,779,758	2.192.213	3,587,545	584,968	622,203	400,965	9,395.34	1,617,532	55,272	55,272	2,025,285
			€9						69		⇔				i	ક્ર		€9	69
Oracle [D]		Commodity	9	63,410	98,278	10,663	427,842	41,941	642,195	243,579	398,616	64,996	69,134	44,552	1,043.93	179,726	6,141	6,141	225,032
			69						69		69					€		69	69
[0]	Adjusted Total	Rebuttal	605	634,099	982,778	106,633	5,273,548	468,170	7,465,833	2,829,394	4,636,439	814,160	865,984	517,509	12,126	2,209,779	71,337	71,337	2,497,996
			↔						↔		€9					€9		€9	€
[8]	Rebutta	Adjustments	•	,	•	,	29,697	126	29,823	12	29,812	1	1	•		•	(1,999)	(1,999)	27,813
			€9					s	69		69					↔		↔	€9
<u>A</u>	Adjusted Test Year -	As Filed	909	634,099	982,778	106,633	5,243,850	468,044	7,436,010	2,829,383	4,606,627	814,160	865,984	517,509	12,126	2,209,779	73,335	73,335	2,470,183
	-		69						()		€9					↔		₩	69

Exhibit Schedule G-5 Rebuttal Page 6 of 7 Witness: Reiker

Plant Classification Intangible Plant Source of Supply Plant Pumping Plant Water Treatment Plant Transmission & Distribution Plant General Plant Subtotal Gross Utility Plant	Less: Accumulated Depreciation Net Plant in Service	Less: Advances in Aid of Construction Net Contributions in Aid of Construction Deferred Income Tax Customer Deposits Subtoral Deductions	Add: Working Capital Net Regulatory Asset / (Liability) Subtotal Additions	Total Rate Base
Line No. 1 1 0 1 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	6 2 7 7 9	5 4 5 1 1 2 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5	2 2 2 2 3	2

	[A]	[8]		[0]	[0]		(E)		(F)		[9]
	Adjusted Test Year - As Filed	Rebuttal Adjustments		Adjusted Total - Rebuttal	Cemmodity		Demand		Customer	<u>F</u>	Direct Private Fire
₩	14 \$ 457,358 470,357 3	9,510	€7	•,	\$ 46,687 47,036	↔	12 420,181 423,322 3	↔		⇔	1 1 1 1
	32,198	6		2,726,285	231,276		2,081,480		398,287		15,243
⇔	3,686,215 \$	ີ	€9		\$ 327,732	€9	2,949,587	€9	402,992	€9	15,423
1	242,303	150		242,712	21,519		193,670		26.509		1 014
**	3,443,653 \$	9,370	69	3,453,022	\$ 306,213	↔	2,755,917	8	376,484	€9	14,408
	3,312,883	•		3,312,883	281,038		2,529,339		483,984		18 522
	221,170	,		221,170	18,762		168,860		32,311		1 237
	38,052			38,052	3,374		30,363		4,156		159
6	2 577 944			90/	62.58		563.19		77.09		2.95
9	3,572,811	•	₩	3,572,811 \$	\$ 303,236	69	2,729,126	€>	520,528	69	19,921
	4,557	(783)		3,775	335		3,012		412		16
€9	4,557 \$	(783) \$	69	3,775 \$	335	69	3,012	69	412	65	16
8	(124,601) \$	8,587	60	(116,014) \$	3,312	65	29.804	69	(143 632)	6	(5 497)

ARIZONA WATER COMPANY Test Year Ended December 31, 2010 Distribution of Rate Base by Function

Exhibit
Schedule G-5 Rebuttal
Page 7 of 7
Witness: Reiker

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	Plant Classification	Intangible Plant	Source of Supply Plant	Pumping Plant	Water Treatment Plant	Transmission & Distribution Plant	General Plant	Subtotal Gross Utility Plant	Less:	Accumulated Depreciation	Net Plant in Service		Less:	Advances in Aid of Construction	Net Contributions in Aid of Construction	Deferred Income Tax	Customer Deposits	Subtotal Deductions		Add:	Working Capital	Net Regulatory Asset / (Liability)	Subtotal Additions	Total Rate Base	
9 9									0	_	~ (m	₩.	ın	"	_	_	•	_	_	٥.	~	_	 	

Year - Rebuttal Rebuttal Total Total 2,134 \$ \$ \$ \$ \$ \$ 1.34 51,660 \$ \$ \$ \$ 15,660 163,932 \$ \$ \$ \$ \$ 15,660 27,193 \$ \$ \$ \$ \$ \$ \$ 15,610 37,193 \$	\$ Rebuttal Total Adjustments Rebut 1
\$ 2,134 - 51,660 - 163,932 - 27,193 - 31,810 - 32,899 \$ 12 \$ 591,428 - 11 \$ 51,219	\$ 2,134 - 163,932 - 163,932 - 2,193 - 2,193 - 31,610 - 32,899 \$ 12 \$ 591,428 - 20,241 - 20,241 - 48,199 - 48,199 - 5 69,689 \$
\$ 1,660 - 163,932 - 27,193 - 313,610 12 \$ 591,428 1	\$ 1060 \$ 17,193 \$ 12 \$ 27,899 \$ 12 \$ 591,428 \$ 11 \$ 591,428 \$ 11 \$ 591,428 \$ 11 \$ 591,428 \$ 11 \$ 69,669 \$ - \$ 69,669 \$ 4,860
\$ 17,193 12 32,899 \$ 12 \$ 591,428 1 220,208	\$ 17,193 - 27,193 - 31,610 - 32,699 \$ 12 \$ 591,428 - 20,241 - 20,241 - 48,199 - 48,199 - 4,860 (483) 4,860
\$ 13,610 12 \$ 32,899 \$ 12 \$ 591,428 1 220,208 \$ 11 \$ 371,219	\$ 13,610 12 \$ 591,428 \$ 12 \$ 591,428 \$ 11 \$ 371,219 - 20,241 - 48,199 - 48,199 - 48,199 - 48,199 - 48,199 - 48,199 - 48,199 - 48,199 - 48,199 - 48,199 - 48,199 - 48,199 - 4,860
\$ 12 \$ 32,899 \$ 12 \$ 591,428 1 220,208 \$ 11 \$ 371,219	\$ 12 \$ 591,428 \$ 11 \$ 591,428 \$ 11 \$ 371,219 - 20,241 - 48,199
1 220,208 \$ 11 \$ 371,219	\$ 11 \$ 371,219 \$ 11 \$ 371,219 \$ - 20,241 - 48,199 - 1,249 - 1,249 - 69,689 (483) 4,860
\$ 11 \$ 371,219	\$ 11 \$ 220,208 \$ 11 \$ 371,219 - 20,241 - 48,199 - 48,199 - 69,689 \$ - \$ 69,689
\$ 11 \$ 371,219	\$ 11 \$ 371,219 20,241 - 48,199 - 1249 \$ - \$ 69,689
	20,241 - 48,199 - 1,249 - 69,689 (483) 4,860
•	\$ - \$ 69,689 (483) 4,860
	\$ - \$ (9,689) (483) 4,860
•	\$ - \$ 69,689 (483) 4,860
	(483)
20,241 48,199 - 1,249 \$ 69,689	(483)
20,241 - 48,199 - 1,249 - 1,249 \$ 69,689	•

ARIZONA WATER COMPANY Test Year Ended December 31, 2010 Distribution of Expenses by Function

	!				Eastern Group			
		<u>[4]</u>	[8]	<u>[</u>	[g]	<u>[E]</u>	(F)	[9]
	·	Adjusted Test Year -	Rebuttai	Adjusted Total -				Direct
Operating Expenses		As Filed	Adjustments	Rebuttal	Commodity	Demand	Customer	Private Fire
Operations & Maintenance Expenses Source of Supply Expenses: Purchased Water	4	1 064 433						
Other	>		(986)	962,069 \$	883,862 \$	98,207 \$ 106,041	s γ-	
Subtotal Source of Supply Expenses	€9	1,183,242 \$	\$ (032'88)	1,099,892 \$		204,248 \$	\$	
Pumping Expenses:								
Purchased Power		2,124,865	3,537	2,128,402	1,915,562	212,840	•	,
Other		1,606	. !	1,606	1,445	161		
Subtotal Primoing Expenses	6	.	t	- 1	75,981			
Castolar Parignal Expenses	A	2,883,857	(4,036) \$	2,889,815 \$	1,992,988 \$	896,827 \$	⇔	
Water Treatment Expenses		752,812	(10,732)	742,080	667,872	74,208	,	,
Transmission & Distribution Expenses		2,561,932	(22,578)	2,539,354	253,935	2,285,419		:
Customer Accounting Expenses		1,768,860	(18,616)	1,750,244	•	. •	1,750,244	,
Administrative & Operant Exercise						•	•	
Total Operations & Maintenant Expenses	ŀ	- 1	- 1		560,468		1,198,073	
oral Operations & Mannerlance Expense	/)	12,130,602 \$	(166,596) \$	11,964,006 \$	4,370,908 \$	4,644,604 \$	2,948,316 \$	177
Depreciation & Amortization Expenses		3,570,899	(3,265)	3,567,635	288,201	2,593,808	657,412	28,214
Taxes								
Income Taxes at Present Rates		554,482	25,358	579,840	154,794	273,717	141,206	10,123
Property taxes		986,631	108,105	1,094,736	93,553	841,977	155,426	3,779
Total Taxes	•	ı		- [92,169	.	i	
	A	1,798,413 \$	133,463 \$	1,931,876 \$	340,517 \$	1,216,541 \$	360,912 \$	13,906
Total Operating Expenses	co.	17,499,915 \$	\$ (26,397)	17,463,517 \$	4,999,626 \$	8,454,954 \$	3,966,640 \$	42,298
					Income & Prope	Income & Property Taxes at Proposed Rates	ed Rates	
				Adjusted with	į.		-	Direct
				increase	Commodify	Demand	Customer	Private Fire

	Direct	Private Fire	13,003	3,584	44,983
			↔		69
ed Rates		Customer	594,903	170,261	4,435,171 \$
pose			↔		69
Income & Property Taxes at Proposed Rates		Demand	1,188,236	912,655	9,440,151 \$
rope			69		69
Income & P		Commodity	754,364	101,406	5,607,049 \$
			↔		€9
	Adjusted with	increase	2,550,507	1,187,906	19,527,353 \$
i			↔		69

Income Taxes at Proposed Rates
Property Taxes at Proposed Rates
Total Operating Expenses at Proposed Rates

	Direct Private Fire	10,254	2,777	32,421
		49		69
n Rates	Customer	458,781	117,701	3,117,784 \$
200		69		€
income a ripperty raxes at Proposed Rates	Demand	947,578	720,786	6,897,988 \$
5		69		69
L S allCOLLE & L	Commodity	603,388	80,087	4,034,564 \$
		69		69
	Adjusted with Increase	2,020,001	921,351	14,082,758 \$
		₩		69

Total Operating Expenses at Proposed Rates

Property Taxes at Proposed Rates

Recap Schedules: G-4 Rebuttal

				Cochis	Cochise (Bisbee, Sierra Vista)	a)		
		₹	[8]	<u>D</u>	[0]	[=]		[9]
	·	Adjusted Test Year - As Filed	Rebuttal Adiustments	Adjusted Total - Bebuttal	Commondify	Demand	Oustomer	Direct Private Fire
Operating Expenses Operations & Maintenance Expenses Source of Supply Expenses:								5
Purchased Water Other	↔	- 58.88	\$. \$	36.410	\$ \$		↔	,
Subtotal Source of Supply Expenses	69	1	\$ (429) \$	36,410	\$ 3,641 \$	32,769	\$ ·	
Pumping Expenses: Purchased Power		448 281	6	364 396	900 908	46 450		
Purchased Gas		1,606	,	1,606	1,445	161		, ,
Other Subsect Promoting Programs		103,494	(1,635)	101,859	10,186	91,673	1	•
Subtotal Pumpling Expenses	99		\$ 1,469 \$	554,850	\$ 417,878 \$	136,973	\$	
Water Treatment Expenses		75,164	(501)	74,663	67,196	7,466	•	1
Transmission & Distribution Expenses		564,445	(5,256)	559,189	55,919	503,270	•	1
Customer Accounting Expenses Sales Expense		355,671	(2,950)	352,721	•		352,721	•
Administrative & General Expenses		573,227	(3,533)	569,694	107.764	229.781	232,083	99
Total Operations & Maintenance Expense	69		\$ (11,200) \$	2,147,527	\$ 652,398 \$	910,259	\$ 584,804 \$	99
Depreciation & Amortization Expenses		498,716	(2,613)	496,103	37,644	338,795	111,105	8,559
Taxes Income Taxes at Present Rates		63,470	5.760	69.230	17.817	32.251	17.969	1,193
Property Taxes		137,972	3,079	141,051	11,126	100,130	29,075	720
Total Taxes	4	- 1	9 020 0	57,585	17,494	24,408	15,681	1 045
	>		600,0	600,102	÷ 054,04	68, 500	9 07/50	
Total Operating Expenses	69	2,916,470	\$ (4,975) \$	2,911,495	\$ 736,478 \$	1,405,843	\$ 758,633 \$	10,540
					Income & Prop	Income & Property Taxes at Proposed Rates	sed Rates	
			1	Adjusted				
				with Increase	Commodity	Demand	Customer	Direct Private Fire
Income Taxes at Proposed Rates			€	337,481	\$ 87,729 \$	158,799	\$ 88,475 \$	2,478
Property Taxes at Proposed Rates				151,085	11,918	107,259	31,145	763

	Direct	rivate Fire	2,478	763	11,868
			↔		69
d Rates		Customer	88,475	31,145	831,210 \$
esoc			€9		69
Income & Property Taxes at Proposed Rates		Demand	158,799	107,259	1,539,520
rope			↔		69
Income & P		Commodity	87,729	11,918	807,182 \$
			69		₩
	Adjusted with	Increase	337,481	151,085	3,189,781 \$
			↔		မာ

Total Operating Expenses at Proposed Rates

 $\begin{array}{c} \text{Line} \\ \text{100} \\ \text{10$

4 5 9 7 8

	Direct	Private Fire	121	14	137
			↔		69
d Rates		Customer	22,447	5,150	209,376
ose			69		€5
Income & Property Taxes at Proposed Rates		Demand	39,703	43,944	404,075 \$
Property Ta			69		69
Income & P		Commodity	48,206	4,883	443,969
			€>		69
	Adjusted with	Increase	110,476	53,990	1,057,557 \$
			69		છ

Total Operating Expenses at Proposed Rates

Property Taxes at Proposed Rates

Income Taxes at Proposed Rates

		ואו	ē					
		₹	<u>a</u>	<u>ত</u>	<u>[</u>	Œ	Œ	[6]
	Ad	Adjusted Test Year -	Rebuttal	Adjusted Total -	4	- : :	(Direct
Operating Expenses Operations & Maintenance Expenses Source of Supply Expenses:	či	As riled	Adjustments	Hebunai	Nipommodil	Demang	Customer	Private
Purchased Water	69	69	€	,	€	,	· \$	· •
Other		5,203	(20)	5,153	515	4,637	-	-
Subtotal Source of Supply Expenses	↔	5,203 \$	\$ (05)	5,153 \$	515 \$	4,637	\$	\$
Pumping Expenses: Purchased Power		107,154	102	107,256	96,530	10,726	•	•
Purchased Gas Other		39,396	, (88)	39.308	3.931	35.377		• •
Subtotal Pumping Expenses	€9	146,550 \$	14 \$	146,564 \$	100,461 \$	46,102	·	69
Water Treatment Expenses		17,008	(89)	16,940	15,246	1,694	•	,
Transmission & Distribution Expenses		127,733	(1,374)	126,359	12,636	113,723	•	•
Customer Accounting Expenses		103,050	(099)	102,400	. 1	. 1	102,400	
Sales Expense		•	•	1	1	,	•	•
Administrative & General Expenses		147,197	(1,061)	146,136	27,735	58,950	59,450	•
Total Operations & Maintenance Expense	€	546,739 \$	(3,189)	543,550 \$	156,594 \$	225,107	\$ 161,850	- €9-
Depreciation & Amortization Expenses		176,809	346	177,155	15,251	137,260	24,644	ı
Taxes								
Income Laxes at Present Rates		50,728	(440)	50,288	11,965	25,231	12,985	106
Property Taxes		39,795	3,053	42,848	3,859	34,730	4,247	
Other		12,688	•	12,688	3,655	5,255	3,7,8	
Total Taxes	↔	103,211 \$	2,613 \$	105,824 \$	19,479 \$	65,215	\$ 21,011	\$ 118
Total Operating Expenses	€	\$26,760 \$	(230) \$	826,530 \$	191,324 \$	427,582	\$ 207,505	\$ 118

	Direct Private Fire	122	13	136
ļ	<u>D</u> .1	69		69
d Rates	Customer	23,756	4,434	218,463 \$
ose		€		ь
Income & Property Taxes at Proposed Rates	Demand	46,160	36,259	450,040 \$
roper		Dem \$ 390 \$ 229	69	
Income & P	Commodity	21,890	4,029	201,419 \$
		↔		69
	Adjusted with Increase	91,929	44,735	870,058
		↔		မှ

Total Operating Expenses at Proposed Rates Property Taxes at Proposed Rates Income Taxes at Proposed Rates

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Recap Schedules: G-4 Rebuttal

				S	SaddleBrooke Ranch			
		[¥]	[8]	[0]	[0]	(E)	(F)	[9]
	A T A	Adjusted Test Year - As Filed	Rebuttal <u>Adjustments</u>	Adjusted Total - Reb <u>uttal</u>	Commodity	Demand	Customer	Direct Private Fire
Operating Expenses Operations & Maintenance Expenses Source of Supply Expenses: Purchased Water	₩	⇔	,	,		(,	·
Other Subtotal Source of Supply Expenses	6	246	,	246	25	222		
	9	9 047	9		e	\$ 777	•	, 9 7
Pumping Expenses: Purchased Power		103,754		103,754	93,379	10,375		
Purchased Gas Other		17,703	, 18	17,721	1,772	15,949		
Subtotal Pumping Expenses	ss	121,457 \$	18 \$	121,475	\$ 95,151 \$	26,324 \$		•
Water Treatment Expenses		753	1	753	678	75	•	٠
Transmission & Distribution Expenses		7,190	(20)	7,170	717	6,453	•	,
Customer Accounting Expenses Sales Expense		8,102	(8)	8,094	•		8,094	
Administrative & General Expenses		10,107	(77)	10,030	1,954	- 3,999	4,076	0
Total Operations & Maintenance Expense	⇔	147,856 \$	\$ (83)	147,769	\$ 98,524 \$	37,074 \$	12,170	0 \$
Depreciation & Amortization Expenses		89,428	2	89,429	7,929	71,359	6,767	374
Taxes		:	:					
Property Taxes		(47,034)	(1,496)	(48,530)	(21,764)	(22,169)	(4,485) 6 581	(113)
Other		295	(i.a.)	567	378	142	47	0
Total Taxes	↔	(41,192) \$	(1,704) \$	(42,895)	\$ (21,537) \$	\$ (23,392) \$	2,143	\$ (109)
Total Operating Expenses	6	196,091 \$	\$ (61,789)	194,302	\$ 84,915 \$	85,041 \$	24,081	\$ 265
			ļ		Income & Prop	Income & Property Taxes at Proposed Rates	ed Rates	
				Adjusted				

Direct Private Fire	59	17	420
11.1	↔		69
Customer	(2,008)	8,956	28,932
	€9		69
Demand	(9,927)	(1,858)	96,790
	€		89
Commodity	(9,746)	(206)	\$ 628'96
	↔		69
Adjusted with Increase	(21,652)	806'9	223,021 \$
	€9		69
	Commodity Demand Customer Pr	Direct Commodity Demand Customer Private Fire ,652) \$ (9,746) \$ (2,008) \$	Direct Commodity Demand Customer Private Fire (652) \$ (9,746) \$ (9,927) \$ (2,008) \$ (908) (1,858) 8,956

Income Taxes at Proposed Rates
Property Taxes at Proposed Rates
Total Operating Expenses at Proposed Rates

 $\begin{array}{c} \text{Lin} \\ \text{No.$

Recap Schedules: G-4 Rebuttal

ARIZONA WATER COMPANY
Test Year Ended December 31, 2010
Distribution of Expenses by Function

					Winkelman			
		[y]	[8]	[0]	[0]	[E]	[F]	[9]
	A T	Adjusted Test Year - As Filed	Rebuttal	Adjusted Total - Debutal	, ile	100		Direct
Operating Expenses Operations & Maintenance Expenses	.1			Bungar	A TOOLS OF THE POPULATION OF T	o la la la la la la la la la la la la la	Jali joista	rivale
Source of Supply Expenses: Purchased Water	49	↔	↔		e s		· ·	,
Other		- 1		383	38		•	•
Subtotal Source of Supply Expenses	₩	388	\$ (2)	383 \$	38 \$	345	•	
Pumping Expenses:		ć	, ;					
Purchased Gas		0,/81	r ₄ '	6,822	6,140	682	•	•
Other		4,108	(2)	4,101	410	3,691		
Subtotal Pumping Expenses	↔	10,889 \$	34 \$	10,923 \$	\$ 055'9	4,373	57	٠ 4
Water Treatment Expenses		7,361	6	7,354	6,619	735	•	•
I ransmission & Distribution Expenses		16,617	(144)	16,473	1,647	14,826	•	•
Customer Accounting Expenses Sales Expense		10,673	(47)	10,626		•	10,626	•
Administrative & General Expenses		14,757	(83)	14.674	2.779	5.916	5 979	
Total Operations & Maintenance Expense	49	\$ 289'09	(252)					
Depreciation & Amortization Expenses		20,295	2	20,297	1,419	12,771	6,106	•
Taxes Income Taxes at Drasant Dates		Č	(000)	;	i	:	;	
Propedy Taxes		945	(208)	334	6/	161	96	•
Other		1,339	900	0,910	39 1	6/9'c 280	2,504 368	
Total Taxes	es.	\$ 986'6	\$ 265	10,583 \$	-	1	\$ 3,066 \$	
Total Operating Expenses	69	\$ 296,06	347 \$	91,315 \$	20,153 \$	45,384 \$	25,778 \$	
					Income & Prop	Income & Property Taxes at Proposed Rates	sed Rates	
				Adjusted with				Direct
				Increase	Commodity	Demand	Customer	Private Fire
Income Taxes at Proposed Rates			У Э	12,272 \$	2,896 \$	5,923 \$	3,452 \$	•
Property Taxes at Proposed Rates				9,837	969	6,266	2,875	•

 $\begin{array}{c} \text{Line} \\ \text{No.} \\ \text{No$

29,407

51,736

104,179

Total Operating Expenses at Proposed Rates

ARIZONA WATER COMPANY Test Year Ended December 31, 2010 Development of Allocation Factors

回 Superstition (Apache Junction, Superior, Miami)

Private Fire

Direct

Exhibit

Schedule G-7 Rebuttal Page 1 of 18 Witness: Reiker

> 1.00 0.24 0.24 0.24 0.24 0.24 0.24 Customer ፸ 0.90 0.90 0.90 0.90 0.90 0.90 0.90 0.90 0.90 0.67 0.67 0.67 0.67 0.67 0.67 Demand 0.10 0.10 0.10 0.00 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.07 0.07 0.07 0.07 0.07 0.07 0.07 Commodity 0.07 18,910 293,831 9,673,631 793,568 153,791 1,526,600 6,673,679 9,147,638 49,586 7,397,605 7,448,002 5,506 4,946,483 53,280,693 2,027,498 3,697,873 78,380,068 811 195,215 13,475,428 54,061 880,274 849,700 12,676 86,544 44,105 1,014,190 756,878 450,547 447,717 108,910,763 12/31/2010 Test Year End of ₹ Subtotal Transmission & Distribution Plant Water Treatment Structures & Improvements Pumping Plant Structures & Improvements (T&D Mains, Fire Sprinkler Taps, Services Meters, & Hydrants) Storage Tanks
> Transmission & Distribution Mains
> Fire Sprinkler Taps
> Services Subtotal Source of Supply Plant Subtotal Water Treatment Plant fransmission and Distribution Land Tools, Shop & Garage Equipment Transmission & Distribution Plant Other Source of Supply Land Efectfric Pumping Equipment Water Treatment Plant Land Water Treatment Equipment Office Furniture & Equipment Subtotal Intangible Plant Subtotal Pumping Plant Power Operated Equipment Communication Equipment Leasehold Improvements Viscellaneous Equipment Subtotal General Plant General Plant Structures Gas Engine Equipment Advances & Contributions Warehouse Equipment Total Plant in Service Laboratory Equipment Pumping Plant Land Source of Supply Plant Water Treatment Plant General Plant Land Other Intangibles Organization Water Rights Wells - Other Infangible Plant Pumping Plant Franchises General Plant Hydrants Meters

99.

0.01 0.01 0.01 0.01 0.01

0.0

0.01

0.26

0.65

0.07

73,238,369

¹Excludes Phoenix office & meter shop

Supporting Schedules:

Exhibit Schedule G-7 Rebuttal Page 2 of 18 Witness: Reiker

		ednS	Superstition (Apache Junction, Superior, Miami)	tion, Superior, N	iami)	
		<u>Z</u>	[8]	<u>D</u>	<u>[</u>	<u> </u>
		End of				
		Test Year				Direct
		12/31/2010	Commodity	Demand	Customer	Private Fire
Operating Expenses ¹	•				20000	11000
Source of Supply Expenses:						
Purchased Water	↔	691,466	06.0	0.10	,	,
Other		68 687	04.0			
Pumping Expenses:		500	ò	0.30	•	
Purchased Power		1 402 065	000			
		1, 102, 000	06.0	5.0		
Tul diased Gas		,	06:0	0.10	•	•
Other		511,114	0.10	06.0	•	,
Water Treatment Expenses		563.641	08.0	010		
Transmission & Distribution Expenses		1 293 729	010	0.00	Ì	•
Customer Accounting Expenses		4 4 2 7 2 2 2 2	2	0.00	, ;	
Color Exposes		1,127,386			1.00	
			•		1.00	
Administrative & General Expenses	İ	1,828,249	0.19	0.40	0.41	00.00
l otal ∪perations & Maintenance Expense	⇔	7,486,337	0.39	0.36	0.25	0.00
Depreciation & Amortization Expenses	↔	2,485,880	0.08	0.73	0.18	0 01

¹A&G Expense allocation ratios updated to reflect 2010 actual functional ratios. All other allocation ratios reflect those accepted in Docket No. 08-0440.

ARIZONA WATER COMPANY
Test Year Ended December 31, 2010
Development of Allocation Factors/Units of Service

Class Commercial Commercial Industrial Other Totals Class Residential 2,1 2,2 2,2 2,4 2,4 2,7 2,7 2,7 2,7 2,7 2,7 2,7 2,7 2,7 2,7	Total M <u>Gallons</u>				<u>n</u>	Ξ	[5] [1]	Ē	E	Ξ	
isidential 2 minercial 2 fustrial her Totals 2 Id Allocation Factor 5 Sidential 5		Percent of Total /									
ssidential Totals Allocation Factor Sidential											
Totals Totals Id Allocation Factor	2,075,778 524,137 19,641	78.35% 19.78% 0.74%									
Totals Id Allocation Factor	29,768	1.12%									
nd Allocation Factor	2,649,324	100.00%									
sidantial											Perce
	5/8-inch	1-inch	1.5-inch	2-inch	3-inch	4-inch	6-inch	8-inch	10-inch	Total	Factor
Meters/Services	21,020	1,553	ı	57	4	10	13	ı	,		
Equivalent Weight Equivalent Meters/Services	1.0 21,020	2.5 3,883	5.0	8.0 455	16.0 64	25.0 259	50.0 667	80.0	115.0	26,348	84.75%
Commercial Meters/Services	384	294		100	25	7	1,2	r	1		
Equivalent Weight	1.0	2.5	5.0	8.0	16.0	25.0	50.05	80.0	115.0		
Equivalent Meters/Services	384	735	1	1,769	402	276	289	162	1	4,316	13.88%
Meters/Services	, ;	က	•	4	7	ı	ı	1	, ;		
Equivalent Weignt Equivalent Meters/Services	O. '	2.5 8	5.0 -	8.0 32	16.0 32	25.0	0.00	90.0	115.0	72	0.23%
Other					•	,	,				
meters/services Equivalent Weight	1.0	2.5	5.0	8.0	16.0	1 25.0	50.0	80.0	115.0		
Equivalent Meters/Services	•		•	•	316	25	13		•	354	1.14%
Totals									1 !	31,088	100.00%
									I		
Customer Allocation Factor											
	Meters /		Percent								
	Services	Bills	Factor								
Class	27 660	274 806	7000								
resudental Commercial Industrial	949	271,896 11,388	95.86% 4.01%								
Other	21	252	0.09%								
	23,637	283,644	100.00%								

Recap Schedules: G-4 Rebuttal, G-3 Rebuttal

			Cochise (Bisbee, Sierra Vista)	Sierra Vista)		
		[A]	[8]	<u>[</u>	[0]	[E]
Line		End of Test Year¹				Direct
e] ←	Intangible Plant	12/31/2010	Commodity	Demand	Customer	Private Fire
2	Organization	€9	0.10	080		,
n <	Franchises	18,755	0.10	06.0	t	,
r vo	Subtotal Intangible Plant	24,641	0.10	0.90	•	,
9	Source of Supply Plant	55,530	0.10	0.90	•	•
۲ ،	Water Rights	445,953	0.10	CG C	ļ	
xo c	Other Source of Supply Land	12,965	0.10	0.90		, ,
» ⊱	Wells - Other	•	0.10	0.90	,	
; ;=	Subtotal Source of Supply Dient	1,190,671	0.10	06:0	•	•
12	Pumping Plant		0.10	06:0	•	1
13	Pumping Plant Land	8.935	010	08.0		
4 ;	Pumping Plant Structures & Improvements	46,922	0.10	06.0		
ប្ ជុ	Electtric Pumping Equipment	1,471,226	0.10	06.0	·	•
5 t	Gas Engine Equipment		0.10	0.90		•
~ ¢	Subtotal Pumping Plant	\$ 1,715,876	0.10	06:0	,	.
5 &	Water Treatment Blood 1 224					
2 5	Water Treatment Changes		0.10	0.90	•	
2 2	Water Treatment Equipment	16,144	0.10	06.0		•
: 6	Subtatal Mater Treatment		0.10	06:0		•
ខ	Transmission & Distribution Disert	\$ 143,024	0.10	06:0		,
54	Transmission and Distribution I and		:			
25	Storage Tanks	5,044 750 636	0.10	0.90	•	
56	Transmission & Distribution Mains	10.036	0.10	0.60		1
27	Fire Sprinkler Taps	322,137	2 5 '	96.9		. 6
8 8	Services	2,988,410	•	•	1.00	2 ,
S 6	Meters	477,436	٠	•	1.00	,
3 5	Hydrants				1.00	
32	Subtotal Transmission & Distribution Plant General Plant	\$ 15,274,344	20.0	0.63	0.27	0.02
33	General Plant Land	0		:		
34	General Plant Structures	2,45U 41,286	0.10	06.0	•	
35	Leasehold improvements	8 234	0.10	0.90	, 0	, 6
36	Office Furniture & Equipment	179,566	0.0	0.63	0.27	0.02
37	Warehouse Equipment		0.07	0.63	0.27	20:0
χ ç	lools, Shop & Garage Equipment	91,877	0.02	0.63	0.27	0.02
8 4	Cabol atory Equipment	5,316	20.0	0.63	0.27	0.02
. 1	Communication Equipment	33,762	0.07	0.63	0.27	0.02
42	Miscellaneous Equipment	33,607	0.07	0.63	0.27	0.02
43	Subtotal General Plant	\$ 933.254	0.07	0.65	0.27	0.02
4			0.0	6.00	0.20	70.0
45	Total Plant in Service	\$ 19,759,483	0.08	0.68	0.22	0.02
5 4						
. 8	Advances & Contributions					
6 6	(T&D Mains, Fire Sprinkler Taps, Services					
2 2	Meters, & Hydrants)	\$ 14,518,664	0.07	0.62	0.29	0.02
52						
g :						
¥ ;	·					
22	'Excludes Phoenix office & meter shop					

(b) (E)	Direct Customer Private Fire		1 1			0.41 0.00 0.28 0.00	
Sierra Vista) [C]	<u>Demand</u> Cu	0.10	0.10	0.10 0.90	, ,	0.40	
Cochise (Bisbee, Sierra Vista) [B] [C]	Commodity	0.90	0.90	0.90		0.19	
[A]	End of Test Year 12/31/201 <u>0</u>	\$ 32,134	445,426 1,606 86,363	87,444 401,330	323,274	502,102 \$ 1,879,679	
	-	Operating Expenses Source of Supply Expenses: Purchased Water Other	Fumping Expenses: Purchased Power Purchased Gas Other	Water Treatment Expenses Transmission & Distribution Expenses	Customer Accounting Expenses Sales Expense	Administrative & General Expenses Total Operations & Maintenance Expense	A&G Expense allocation ratios updated to reflect 2010 actual functional ratios. All other allocation ratios reflect those accepted in Docket No. 08-0440.

ARIZONA WATER COMPANY Test Year Ended December 31, 2010 Development of Allocation Factors/Units of Service

Recap Schedules: G-4 Rebuttal, G-3 Rebuttal

Consideration Process	Totals Percent	Total Percent Modelions Factor Modelions Factor Modelions Factor Modelions Factor Modelions Factor Modelions Factor Modelions Factor Modelions Factor Modelions Factor Modelions Factor Modelions Modeli
1,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0	At the content of t	## 19.429
179.362 70.41% 179.363 70.41% 179.363 70.41% 179.363 70.41% 179.363 70.61% 18.29 70.61% 19.20 19.2	1783.35 70.41% 1.000%	19,355 2,683% 19,356 1
Metasys Services	See Add	18,429 2,70%
Totals	Totals	568-tof 100,00% 5,790 91 2-inch 2-inch 4-inch 6-inch 8-inch 5,790 227 25 50 80 16.0 25.0 50.0 282 227 - 6 - - - - - 1.0 2.5 5.0 80 16.0 25.0 50.0 282 221 - 686 112 151 - - 1.0 2.5 5.0 80 16.0 25.0 50.0 - 3 - 8 - - - - - - 5.0 8.0 16.0 25.0 50.0 - - - - - - - - - - - - - - - - - - - - - - - - - - <t< td=""></t<>
Additional problem Selection Librid	Second S	5/8-inch 1-inch 1.5-inch 2-inch 3-inch 4-inch 6-inch 8-inch 1.5-inch 1.5-inch 2-inch 3-inch 4-inch 6-inch 8-inch 1.5-inc
Selection Sele	Section Each Section	5/8-inch 1-inch 1.5-inch 2-inch 3-inch 4-inch 6-inch 8-inch 5,790 91 - 7 - - - 1,0 2.5 5.0 8.0 16.0 25.0 50.0 282 89 - 86 17 6 - 1,0 2.5 5.0 8.0 16.0 25.0 50.0 282 221 - 16.0 25.0 50.0 - 1.0 2.5 5.0 8.0 16.0 25.0 50.0 - - - - - - - - 1.0 2.5 5.0 8.0 16.0 25.0 50.0 - - - - - - - 1.0 2.5 5.0 8.0 16.0 25.0 50.0 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -<
Maleers Services 258-linch 1-inch 1-inch 2-inch	Side-inclation 1-inclation	\$\frac{5(8-inch}{5,790} & \frac{11-inch}{2} & \frac{15-inch}{15-inch} & \frac{2-inch}{2-inch} & \frac{3-inch}{3-inch} & \frac{4-inch}{5-inch} & \frac{2-inch}{5-inch} & \frac{2-inch}{5-inch} & \frac{3-inch}{5-inch} & \frac{6-inch}{5-inch} &
Meters/Services	Secondary	5,790 91 - 7
Molest/Secryticas 5790 91 -	Equivalent Meters/Services 5,790 91 - 7 - 6 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7	5,790 91 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 -
Equivalent Weight Equivalent Meters/Services Equivalent Meters/Services Equivalent Meters/Services Equivalent Meters/Services Equivalent Meters/Services Equivalent Meters/Services Equivalent Meters/Services Equivalent Meters/Services 10 25 50 80 112 151 50 800 80 112 1	Equivalent Meters/Services 5,790 2.5 5.0 760 250 500 Equivalent Meters/Services 2,790 2.5 5.0 80 7 6 7 6 7 700	5,790 2.5 5.0 8.0 16.0 25.0 50.0 5.790 2.27 - 56
Meters/Services 282 89 96 7 6 90	Percent	282 89 - 86 - 6 - 7 6 6 - 7 1.0 2.5.0 5.0 8.0 16.0 25.0 5.0 5.0 2.5 5.0 8.0 16.0 25.0 5.0 5.0 2.5 5.0 8.0 16.0 25.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0
Meters/Services 189	Maters/Services	282 89 - 86 7 6 - 6.0 282 221 - 686 112 151 - 6.0 282 221 - 686 112 151 - 6.0 1.0 2.5 5.0 8.0 16.0 25.0 50.0 50.0 2.5 5.0 8.0 16.0 25.0 50.0 50.0 2.5 5.0 8.0 16.0 25.0 50.0 50.0 50.0 50.0 50.0 50.0 50
Controlled Meters/Services	1.0 2.5 5.0 8.0 16.0 25.0 50.0	1.0 2.5 5.0 8.0 16.0 25.0 50.0 28.2 221 - 686 112 151 - 1.0 2.5 5.0 8.0 16.0 25.0 50.0 2.5 5.0 8.0 16.0 25.0 50.0 2.5 5.0 8.0 16.0 25.0 50.0 2.5 5.0 8.0 16.0 25.0 50.0 2.5 5.0 8.0 16.0 25.0 50.0 2.5 5.0 8.0 16.0 25.0 50.0 2.5 5.0 8.0 16.0 25.0 50.0 2.5 5.0 8.0 16.0 25.0 50.0 2.5 5.0 8.0 16.0 25.0 50.0 2.5 5.0 5.0 50.0 2.5 5.0 50.0 2.5 5.0 50.0 2.5 5.0 50.0 2.5 5.0 50.0 2.5 5.0 5.0 50.0 2.5 5.0 5.0 50.0 2.5 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5
Securities 1.0 2.5 5.0 8.0 16.0 25.0 8.0 16.0 25.0 8.0 16.0 25.0 8.0 25.0 2	Usatival Equivalent Weight Equivalent Weight Equivalent Weight Services 1.0 2.5 5.0 8.0 1.0 2.5 5.0 5.	1.0 2.5 5.0 8.0 16.0 25.0 50.0 3 - 8
Meters/Services 1 1 2.5 5.0 8.0 1.0 2.5 5.0 8.0 1.0 2.5 5.0 8.0 1.0 2.5 5.0 8.0 1.0 2.5 5.0 8.0 1.0 2.5 5.0 8.0 1.0 2.5 8.0 1.0 2.5 2.0 8.0 1.0 2.5 1.0 2.5 2.0 8.0 1.0 2.5 3.0 8.0 9.0 <th< td=""><td>Meters/Services 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 0 2 0 1 0</td><td>1.0 2.5 5.0 8.0 16.0 25.0 50.0 3 - 8 5 1.0 2.5 5.0 8.0 16.0 25.0 50.0 Percent Meters / of Total / Services Bills Factor</td></th<>	Meters/Services 1 2 5 0 1 2 5 0 1 2 5 0 1 2 5 0 1 0 2 0 1 0	1.0 2.5 5.0 8.0 16.0 25.0 50.0 3 - 8 5 1.0 2.5 5.0 8.0 16.0 25.0 50.0 Percent Meters / of Total / Services Bills Factor
1.0 2.5 5.0 8.0 16.0 25.0 50.0 80.0 Equivalent Meters/Services 1.0 2.5 5.0 8.0 16.0 25.0 50.0 80.0 Meters/Services 1.0 2.5 5.0 8.0 16.0 25.0 50.0 Equivalent Meters/Services 1.0 2.5 5.0 8.0 16.0 25.0 80.0 Equivalent Meters/Services 1.0 2.5 5.0 8.0 16.0 25.0 80.0 Totals	1.0 2.5 5.0 8.0 16.0 25.0 5.0 Equivalent Meters/Services	1.0 2.5 5.0 8.0 16.0 25.0 50.0 1.0 2.5 5.0 8.0 16.0 25.0 50.0 1.0 2.5 5.0 8.0 16.0 25.0 50.0 Percent Meters / of Total / Services Bills Factor
her Equivalent Meters/Services - <th< td=""><td>her Meters/Services 5 5 79 10 2.5 5.0 50.0</td><td>1.0 2.5 5.0 8.0 16.0 25.0 50.0 Meters / of Total / Services Bills Factor</td></th<>	her Meters/Services 5 5 79 10 2.5 5.0 50.0	1.0 2.5 5.0 8.0 16.0 25.0 50.0 Meters / of Total / Services Bills Factor
Meters/Services	Meters/Services	1.0 2.5 5.0 8.0 16.0 25.0 50.0 Percent Meters / of Total / Services Bills Factor
1.0 2.5 5.0 8.0 16.0 25.0 50.0 80.0 Equivalent Meters/Services -	Equivalent Weight Totals Totals Totals Totals Totals Totals Totals Totals Totals Percent Meters / of Total / Services Bills Factor Services Bills Factor Totals Services Bills Factor Services Bills Factor Total / Services Bills Factor S	1.0 2.5 5.0 8.0 16.0 25.0 50.0 Meters / Of Total / Services Bills Factor
Totals Per	Totals Per P	Bills 기계 기계 기계 기계 기계 기계 기계 기계 기계 기계 기계 기계 기계
Der Allocation Factor Per	December Percent Per	9 P P P P P P P P P P P P P P P P P P P
Perecord Perecord	Per Allocation Factor Per	Pe Pe Pe
Per Allocation Factor Per	Per Allocation Factor Per	Pe Fo
Permitted Perm	Neters / of of Services Bills Fi	Per of 1
Meters / Orl Meters / Orl Services Bills Factorial 5,888 70,656 Meters Factorial 2 24 Cartail 6 68 Cartail 6,365 76,376 Cartail Cart	Meters / Of Services Bills FE	of J Bills FE
Sidential 5,888 70,656 mmercial 5,628 70,656 tustrial 2 24 her 6,365 76,376	Sidential 5,888 70,656 mmercial 469 5,628 Lustrial 2 24 e8 e8 e8 e8 e8 e8 e8 e8 e8 e8 e8 e8 e8	
ercial 5,888 70,656 ercial 469 5,628 rial 2 24 rial 6,365 76,376	ential 5,888 70,656 erecial 469 5,628 rial 24 rial 68	000
469 5,628 fial 2 24 fial 6,365 76,376	469 5,628 rial 2 24 rial 6 68 636 76.376	70,656
6 68 6,365 76,376	6.365 6.365 76.376	5,628
76,376	76.376	89
) .)	76,376

ARIZONA WATER COMPAN Test Year Ended December 31, 2010 Development of Allocation Factors
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	<u>C</u>	<u>6</u>	<u>.</u>	<u>=</u>	E)
eci	End of Test Veer				į
	12/31/2010	Commodity	Demand	Customer	Private Fire
Intangible Plant					
Organization	·	0.10	06.0	•	1
Pranchises Other letter: http://		0.10	0.90	•	1
3		0.10	0.90		•
Source of Supply Digate	\$ 334	0.10	06:0		•
7 Mater Bintte	270 470		o o		
	75,452	0.10	06.0 08.0	1	• 1
Wells - Other	ī	2.0	0.0	•	ı
		0.10	06.0		•
11 Subtotal Source of Supply Plant	\$ 178 992	0.0	000		
Pump		5			
	2,000	0.10	06.0	,	•
	14,110	0.10	0.90	•	•
15 Electtric Pumping Equipment	385,648	0.10	0.90	•	P
	•	0.10	06.0		
	\$ 406,758	0.10	06.0		
Š					
	2,000	0.10	06'0		•
	42,932	0.10	06:0	ı	•
	1,5	0.10	06'0		•
Subtotal V	\$ 1,423,251	0.10	06.0		,
드					
	005'69	0.10	06.0	1	•
Storage Tank	98,403	0.10	0.90	•	٠
Transmission	1,209,461	0.10	06.0	,	•
Fire Sprinkler	100	•	1	,	1.00
	339,836		•	1.00	•
	122,815		•	1.00	•
Hydrants			,	1.00	-
	\$ 1,914,920	20.0	0.65	0.28	0.00
5		:	,		
	1 1	0.10	06.0	•	•
	20,223	0.10	0.90		•
	35,214	20.0	0.65	0.28	0.00
Office Furniture & Equipment	107,887	20.0	0.65	0.28	0.00
	4,769	0.02	0.65	0.28	0.00
	74,308	20.0	0.65	0.28	0.00
	2,618	0.07	0.65	0.28	0.00
Power Operated Equipment	2,695	20.0	0.65	0.28	0.00
Communication Equipment	109,348	0.07	0.65	0.28	0.00
	17,222	0.02	0.65	0.28	0.00
	\$ 374,285	20.0	99.0	0.27	0.00
	1				
45 total Plant in Service	\$ 4,298,541	60.0	0.77	0.15	0.00
46 47					
Ag					
(T&D Mains, Fire Sprinkler Taps, Services					
50 Meters, & Hydrants) 51	\$ 1,747,017	0.07	0.62	0.31	00.00
Texclides Phoenix office & mater shop					

Exhibit
Schedule G-7 Rebuttal
Page 8 of 18
Witness: Reiker

		San Manuel	nuel		
	[A]	[8]	[0]	[0]	(E)
	End of Test Year				Direct
Operating Expenses '	12/31/2010	Commodity	Demand	Customer	Private Fire
Purchased Water	\$ 174.051	o c			
Other	00'6	0.90	0.10		
Pumping Expenses:	906'5	0.10	0.90		
Purchased Power	32 531	0			
Purchased Gas	00,10	08.0	0.10		
Other		06:0	0.10	•	
Water Treatment Expenses	43,866	0.10	06.0	,	
Transmission & Distribution Communication	44,589	06:0	0.10		
Customer Accounting Expenses	85,403	0.10	0.90	٠	
Sales Expense	104,739			1.00	,
Administrative & General Exposure				1.00	
Total Operations & Maintenance Expenses	118,718	0.19	0.40	0.41	0.00
	\$ 607,403	0.43	0.32	0.25	00.00

0.00

0.15

0.77

0.09

Onerating Expanses 1		End of Test Year 12/31/2010
Source of Supply Expenses: Purchased Water Other Pumping Expenses:	↔	174,051 3,506
Purchased Power Purchased Gas		32,531
Water Treatment Expenses Transmission & Distribution Expenses		43,866 44,589 85,403
Customer Accounting Expenses Sales Expense		104,739
Administrative & General Expenses Total Operations & Maintenance Expense	€9	118,718 607,403
Depreciation & Amortization Expenses	69	75,433
A&G Expense allocation ratios updated to reflect 2010 actual functional ratios. All other		

Line						San Manuel					
Commodity Allocation Factor	₹.	<u>@</u>	[5]	<u>©</u>	<u>(i)</u>	[F]	[6]	Ξ	Ξ	[7]	
33.5	Total	Percent of Total /									
O	M Gallons	Factor									
6 Residential 7 Commercial	120,767	85.01%									
	22.8	0.00%									
10 11 Totals	142 070	700 00%									
12 13											
14 15 Demand Allocation Eartor											
											Percent
17 Class Decidential	5/8-inch	1-inch	1.5-inch	2-inch	3-inch	4-inch	6-inch	8-inch	10-inch	Total	of Total / Factor
	280	(
	1.0	2.5	0.50	, α	, 4,	, ,	, 0	, 6			
Equivalent Meters/Services	1,389	15	;		2 ,	0.07	0.00	0.00	115.0	1,404	79.93%
	73	;		•	,						
	2 C.	2.5	, 9	αο c	- u	7- 0	e c	, 6	, 17		
5 Equivalent Meters/Services	43	35		63	16	25	148	0.00	0.611	330	18.78%
	•	,									
6 Equivalent Weight 9 Equivalent Meters/Services	1.0	2.5	5.0	8.0	16.0	25.0	20.0	80.0	115.0		
o		•	•	,	,		•	,	ı	,	%00.0
	, 7	, (, (-						
Equivalent Meters/Services		2.5	5.0	0.8	16.0	25.0	50.0	80.0	115.0	8	2000
2007					ì				•	67	0.67.1
									1 11	1,757	100.00%
37											
9 0 <u>Customer Allocation Factor</u>											
			Percent								
43	Meters /	3	of Total /								
Cla			Lacio								
45 Residential 46 Commercial	1,395	16,740	95.13%								
	2 ,	840	0.00%								
48 Other 49	-	17	0.10%								
50	1,466	17,597	100.00%								
- 01											
54 "Allocation factors include customer growth 55											

Direct Private Fire

回

ARIZONA WATER COMPANY Test Year Ended December 31, 2010 Development of Allocation Factors

9.

N.X011_Rate_Case/Schedules/Eastern Group/2011 AWC Rate Case Model REBUTTAL SCHEDULES AWC EG 03.30.12 900am xisx/G7 Processing Date: 3/30/2012 11:10 AM

ARIZONA WATER COMPANY Test Year Ended December 31, 2010 Development of Allocation Factors

Page 11 of 18 Witness: Reiker Exhibit Schedule G-7 Rebuttal

> Direct Private Fire Ξ 0.1.00 Customer ē 0.10 0.90 0.10 0.90 0.10 Demand 0 Oracle 0.90 0.90 0.90 0.10 0.90 0.10 0.19 Commodity 亶 167,307 107,256 34,254 21,005 94,494 99,824 131,434 493,263 End of Test Year 12/31/2010 Transmission & Distribution Expenses Administrative & General Expenses Total Operations & Maintenance Expense Customer Accounting Expenses Depreciation & Amortization Expenses Source of Supply Expenses: Water Treatment Expenses Purchased Water Purchased Power Purchased Gas Pumping Expenses: Operating Expenses1 Sales Expense

0.14

0.77

0.09

¹A&G Expense allocation ratios updated to reflect 2010 actual functional ratios. All other allocation ratios reflect those accepted in Docket No. 08-0440.

ARIZONA WATER COMPANY
Test Year Ended December 31, 2010
Development of Allocation Factors/Units of Service

					Ī.	2	Ţ.		Ξ	2	
	Total <u>M Gallons</u>	Percent of Total / <u>Factor</u>									
Class											
Commercial	91,703	81.35%									
Industrial		0.00%									
Other	2,098	1.86%									
Totals	112,722	100.00%									
Demand Allocation Factor											
Class	5/8-inch	1-inch	1.5-inch	2-inch	3-inch	4-inch	6-inch	8-inch	10-inch	Total	
Residential											
Meters/Services Foutvalent Weight	1,359	50	, 4	0 0	, 4	, 40	, 0	, 8	, 1100		
Equivalent Meters/Services	1,359	126	0.0		0.0	7.00	. J.	0.00	2	1,488	m
Commercial	;	!		,							
Meters/services Formyalent Weight	12	17	, 4	φα	. 4	, ,	100	- 0	, <u>1</u>		
Equivalent Meters/Services	72	42	2.	5.7	2 ,	2.53	48	2 '	2 -	213	m
Industrial											
Meters/services	, -	' c	, 4	, α	. 46	25.0	, <u>C</u>	- 008	1150		
Equivalent Meters/Services		, ,	?	S ,	2 ,	0.03	3 '	3 '	2 ,	٠	
Other Maters/Sequipme					c						
Reters/selvices Equivalent Weight	. 10	2.55	- 50	, 60	16.0	25.0	50.0	80.0	115.0		
Equivalent Meters/Services		,		;	37		,		ı	37	
Totals									1	1 739	٦
									II		.1
Customer Allocation Factor											
	:		Percent								
	Meters /	Bills	of Total /								
Class											
Residential	1,410	16,920	93.48%								
Contribution	S ,	701'1	0.50%								
Other	2	28	0.15%								
	1 508	18 100	100 00%								
	,	25.12	20.22								

ARIZONA WATER COMPANY Test Year Ended December 31, 2010 Development of Allocation Factors

		[A]	SaddleBrooke Ranch [B] [C]	Ranch [C]	Q	(E)
		End of				
S Li		Test Year ¹ 12/31/2010	Commodity	Demand	Customer	Direct Private Fire
_ ·	Intangible Plant					
77 r	Organization Franchises	: 1	0.10	0 0 0 0		
4	Other Intangibles	•	0.10	06.0	•	ı
2	Subtotal Intangible Plant	69	0.10	06:0		,
91	Source of Supply Plant		6	c c		
~ α	Water Rights Other Source of Supply Land		0.10	0 0 0 0		
ი თ	Wells - Other	20 ,	0.10	0.90	•	
, 6	Wells	457,306	0.10	0.90	٠	•
7	Subtotal Source of Supply Plant	\$ 457,358	0.10	06.0		1
12	Pumping Plant		2	ć		
5 2	Pumping Plant Land	, ca	0.10	0.00		
4 ti	Fumping Plant Structures & Improvements Flectric Pumping Fautinment	53,665 416,673	0.0	06.0	. 1	
5 6	Gas Engine Equipment		0.10	06:0	1	,
17	Subtotal Pumping Plant	\$ 470,357	0.10	06.0	,	
18	Water Treatment Plant					
19	Water Treatment Plant Land	•	0.10	0.90		•
2 2	Water Treatment Structures & Improvements	ı	0.10	0:00	ı	
21	Water Treatment Equipment		0.10	0.90		,
22	Subtotal Water Treatment Plant	· • • •	0.10	06.0		,
3 5	Transmission or Distribution Figure		040	c		,
2,5	Storage Tanks	1)	0.00	06.0		
26	Transmission & Distribution Mains	2.312.748	0.10	06'0		•
27	Fire Sprinkler Taps	15,243	; '	} '	•	1.00
28	Services	208,294	•		1.00	•
59	Meters	53,814	•	,	1.00	•
30	Hydrants	ļ	•		1.00	
33	Subtotal Transmission & Distribution Plant	\$ 2,726,276	0.08	0.76	0.15	0.01
35	General Plant			ó		
3 5	General Plant Land	•	0.10	08.0	•	
4 6	General Plant Structures		2 0	0.90	, c	0
ດິເ	Leasehold Improvements	•	0.00	0.76	0.00	0.00
37	Warehouse Equipment		90.0	0.76	0.15	0.01
38	Tools, Shop & Garage Equipment	•	0.08	0.76	0.15	0.01
33	Laboratory Equipment	1	0.08	0.76	0.15	0.01
4	Power Operated Equipment	1	80:0	0.76	0.15	0.01
4 5	Communication Equipment	21,615	90.0	0.76	0.15	0.0
7 5	Miscellaneous Equipment		80.0	0.70	0.13	50.0
4 4 5 4	Subtotal General Plant	\$ \$10,12 \$	0.08	0.70		
45	Total Plant in Service	\$ 3,675,606	60.0	0.80	0.11	00.00
46		i				
47						
4 4 8 0	Advances & Contributions (T&D Mains Fire Sprinkler Tans Services					
20	Meters, & Hydrants)	\$ 2,726,276	80.0	0.76	0.15	0.01
51						
22 52						
54						
22	'Excludes Phoenix office & meter shop					

		SaddleBrooke Ranch	ce Ranch		
	[A]	[8]	<u>D</u>	<u>[</u>	[E]
	End of				i
	lest Year 12/31/2010	Commodity	Demand	Customer	Direct Private Fire
Operating Expenses 1				2000	2
Source of Supply Expenses:					
Purchased Water	, 43	06:0	0.10	•	,
Other	204	0.10	06:0	•	1
Pumping Expenses:					
Purchased Power	103,754	06:0	0.10	,	,
Purchased Gas	•	06.0	0.10	1	
Other	2,271	0.10	06:0	•	1
Water Treatment Expenses	634	06'0	0.10	•	,
Transmission & Distribution Expenses	4,418	0.10	06:0	•	,
Customer Accounting Expenses	860'9	•	•	1.00	
Sales Expense	,	•	1	1.00	1
Administrative & General Expenses	7,149	0.19	0.40	0.41	0.00
Total Operations & Maintenance Expense	\$ 124,528	77.0	0.16	0.07	00.0

0.00

0.11

0.80

0.09

80,591

49

Depreciation & Amortization Expenses

COLLINGUITY ANDCAROL PACIO											
		Percent									
	Total M Gallons	of Total / Factor									
Class											
Residential Commercial	4,897 12,644	24.94% 64.40%									
Industrial Other	2 093	0.00%									
Totals	19,634	100.00%									
Demand Allocation Factor											Percent
Class	5/8-inch	1-inch	1.5-inch	2-inch	3-inch	4-inch	6-inch	8-inch	10-inch	Total	Factor
Residential											
Meters/Services	9/	25			•	. !	. ;	. ;	, ,		
Equivalent Weight	1.0	2.5	5.0	8.0	16.0	25.0	20.0	80.0	115.0	139	%20.29
Commercial	9	ò	•	1	•	•		İ	i	2	
Meters/Services	4	-	,	9		•		1	1		
Equivalent Weight	1.0	2.5	5.0	8.0	16.0	25.0	20.0	80.0	115.0		
Equivalent Meters/Services	4	က	•	45	12	ı	1	,	1	64	31.00%
Industrial											
Meters/Services	, ,	, c	, u	, 0	- 4	- 25.0	, C 03	008	115.0		
Equivalent Meters/Services	? ,	?; ,	ς,) ;	2 -	2 ,	2 ,	? ,		•	0.00%
Other											
Meters/Services	•	, .		, '	0 !	, ;	, ,	, 6	, ,		
Equivalent Weight Equivalent Meters/Services	1.0	2.5	. 5.0	0.8	16.0	25.0	50.0	80.0 '	0.611	4	1.93%
					•				ļ		
Totals									1 11	207	100.00%
Customer Allocation Eactor											
Casioniei Anocanoni acto			Decreant								
	Meters /		of Total /								
ī	Services	Bills	Factor								
Class	Š		400								
Kesidential Commercial	101	1,212	89.18% 10.60%								
Industrial	· .	Ξ,	%00'0								
Other	0	m	0.22%								
	143	1 250	100 008								
	2	905,T	100.0078								

ARIZONA WATER COMPANY Test Year Ended December 31, 2010 Development of Allocation Factors

Exhibit
Schedule G-7 Rebuttal
Page 16 of 18
Witness: Reiker

Direct Private Fire

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N/0011_Rate_Case/Schedules/Eastern Group/2011 AWC Rate Case Model REBUTTAL SCHEDULES AWC EG 03:30.12 900am.xlsx/G7 Processing Date: 3/30/2012 11:10 AM

			Winkelman	an			
		[A]	[8]	<u>5</u>	<u>[]</u>	[E]	
	En Test	End of Test Year	i i i	9	,	Direct	
Operating Expenses¹	(17)	0102	Columbation	ביים ביים ביים ביים	Cusionie	FIVAGE	
Source of Supply Expenses:							
Purchased Water	€9	1	0.90	0.10	ı	,	
Other		372	0.10	06.0	•		
Pumping Expenses:							
Purchased Power		6,511	06.0	0.10	1		
Purchased Gas		1	0.90	0.10			
Other		3,659	0.10	06.0	•	i	
Water Treatment Expenses		8.215	06:0	0.10	•		
Transmission & Distribution Expenses		10,565	0.10	0.90	,		
Customer Accounting Expenses		10,444	,		1.00	•	
Sales Expense			ı	1	1.00		
Administrative & General Expenses		13,240	0.19	0.40	0.41	•	
Total Operations & Maintenance Expense	69	53,006	0.32	0.38	0.30	,	
Depreciation & Amortization Expenses	⇔	27,358	0.07	0.63	0.30	,	

Operating Expenses¹ Source of Supply Expenses: Purchased Water Other Other Purchased Power Purchased Gas Other Water Treatment Expenses Transmission & Distribution Expenses Customer Accounting Expenses Sales Expense Administrative & General Expenses Administrative & General Expenses	Depreciation & Amortization Expenses	¹ A&G Expense allocation ratios updated to reflect 2010 actual functional ratios. All other allocation ratios reflect those accepted in Docket No. 08-0440.
Line No. 1 2 2 2 3 3 2 4 4 4 4 4 4 4 4 4 4 4 4 4 4	2	52 53 54 55

ARIZONA WATER COMPANY
Test Year Ended December 31, 2010
Development of Allocation Factors/Units of Service

Commercial Highest Figure Figure	Total Percent Total Percent Patent Percent	ssidential ommercial dustrial ther Totals Totals Allocation Factor Equivalent Weight Equivalent Weight Meters/Services Fquivalent Weight Equivalent Weight Equivalent Weight	Per of Fer in Fe								
1,291 5,179%	15.912 51.78%	sidential normercial dustrial ther Totals Allocation Factor Sidential Meters/Services Equivalent Weight Equivalent Weight Meters/Services Equivalent Weight Equivalent Weight Equivalent Weight	7								
Totals	Totals	Totals Allocation Factor sidential Meters/Services Equivalent Weight Equivalent Weight Substances Equivalent Weight Equivalent Weight Equivalent Weight	1								
Signature Sign	Signate Sign	nd Allocation Factor ssidential Meters/Services Equivalent Weight Equivalent Meters/Services ommers/Services Equivalent Weight	1-inch								
1-inch 1	Maters/Services	ssidential Meters/Services Equivalent Weight Equivalent Meters/Services Ommers/Services Equivalent Weight	1-indh								
Meters/Services 132 2 5 6 6 6 6 6 6 6 6 6	Meters/Services	Services lent Weight lent Meters/Services I Services lent Weight		1.5-inch	2-inch	3-inch	4-inch	6-inch	8-inch	台	10-inch
Equivalent Weight 10 25 50 80 160 250 500 Commercial Meters/Services 13 1 -	Equivalent Weight 1,0 2,5 5,0 16,0 Equivalent Meters/Services 1,3 1 2,5 5,0 16,0 Equivalent Meters/Services 1,3 2,5 5,0 8,0 16,0 Equivalent Meters/Services 1,0 2,5 5,0 8,0 16,0 Equivalent Meters/Services 1,0 2,5 5,0 8,0 16,0 Equivalent Weight 1,0 2,5 5,0 8,0 16,0 Equivalent Weight 1,0 2,5 5,0 8,0 16,0 Equivalent Meters/Services 1,0 2,5 5,0 8,0 16,0 Equivalent Meters/Services 1,0 2,5 5,0 8,0 16,0 Equivalent Meters/Services 1,0 2,5 5,0 8,0 16,0 Equivalent Meters/Services 1,0 2,5 5,0 8,0 16,0 Equivalent Meters/Services 1,0 2,5 2,0 3,0 Equivalent Meters/Services 1,0 2,5 2,0 3,0 Equivalent Meters/Services 1,0 2,0 3,0 Equivalent Meters/Services 1,0 2,0 3,0 Equivalent Meters/Services 1,0 2,0 3,0 Equivalent Meters/Services 1,0 3,0 Equivalent Meters/Serv	nt Weight nt Meters/Services services nt Weight		,	,	t	,	1	1		,
Totals	Commercial Meters/Services 132 5	nt weters/services services nt Weight		5.0	8.0	16.0	25.0	90.0	80.0		115.0
Maters/Services	Equivalent Meters/Services 13 1 - 2 1 15 Equivalent Meters/Services 13 15 15 15 Industrial Meters/Services 1 1 1 15 Equivalent Meters/Services 1 1 1 15 Customer Allocation Factor 1 1 1 1 1 Customer Allocation Factor 1 1 1 1 Equivalent Meters/Services 1 1 1 1 Equivalent Meters/Services 1 1 1 1 Equivalent Meters/Services 1 1 1 1 Equivalent Meters/Services 1 1 1 1 Equivalent Meters/Services 1 1 1 1 Equivalent Meters/Services 1 1 1 1 Equivalent Meters/Services 1 1 1 1 Equivalent Meters/Services 1 1 1 1 Equivalent Meters/Services 1 1 1 1 Equivalent Meters/Services 1 1 1 1 Equivalent Meters/Services 1 1 1 1 Equivalent Meters/Services 1 1 1 1 Equivalent Meters/Services 1 1 1 1 Equivalent Meters/Services 1 1 1 1 1 Equivalent Meters/Services 1 1 1 1 1	services rnt Weight		ı	•						•
Equivalent Weight Houses Services 13 2 5 5 0 16 0 25 0 60 17 18 18 18 18 18 18 18 18 18 18 18 18 18	Equivalent Weight fundational materix/Services 1.0 2.5 5.0 8.0 16.0 Industrial materix/Services 1.0 2.5 5.0 8.0 16.0 Equivalent Weight Equivalent Meters/Services 1.0 2.5 5.0 8.0 16.0 Meters/Services 1.0 2.5 5.0 8.0 16.0 Equivalent Weight Equivalent Meters/Services 1.0 2.5 5.0 8.0 16.0 Totals 1.0 2.5 5.0 8.0 16.0 Customer Allocation Factor Meters / Services Bills Factor 1.0 Class Residential 134 1.608 87.01% 1.0 Commercial 1 12 0.00% 0.00% Other 100.00% 100.00% 1.0 1.0			•	8	-	2	•	,		•
Industrial Meters/Services	Fequivalent Meters/Services			5.0	8.0	16.0	25.0	50.0	80.0		115.0
Meters/Services	Housers House	valent Meters/Services		•	15	15	48	ı	r		•
Equivalent Weight	Equivalent Weight	S. C. Populicae			•						
Equivalent Meters/Services 6 Other Other Meters/Services 1.0 2.5 5.0 80 16.0 25.0 50.0 Equivalent Weight Equivalent Weight Equivalent Weight Equivalent Weight Weight Weight Weight Services 1.0 2.5 5.0 80 16.0 25.0 50.0 Customer Allocation Factor Meters / Services Bills Factor 70 Total / Factor <td>Equivalent Meters/Services Other Meters/Services Equivalent Weight Equivalent Weight Equivalent Weight Equivalent Weight Equivalent Meters/Services Totals Customer Allocation Factor Class Residential Commercial 19 228 12.34% Industrial Other 154 1,848 100.00%</td> <td></td> <td></td> <td>, v:</td> <td>- c</td> <td>- 160</td> <td>25.0</td> <td>50.0</td> <td>80.0</td> <td></td> <td>115.0</td>	Equivalent Meters/Services Other Meters/Services Equivalent Weight Equivalent Weight Equivalent Weight Equivalent Weight Equivalent Meters/Services Totals Customer Allocation Factor Class Residential Commercial 19 228 12.34% Industrial Other 154 1,848 100.00%			, v:	- c	- 160	25.0	50.0	80.0		115.0
Other Meters/Services 1.0 2.5 5.0 8.0 16.0 25.0 50.0 Equivalent Meters/Services Totals Totals Fercent "><td>Other Meters/Services Meters/Services 1.0 2.5 5.0 8.0 16.0 Equivalent Weight Equivalent Weight Equivalent Weight Equivalent Meters/Services 1.0 2.5 5.0 8.0 16.0 Customer Allocation Factor Maters / Or Total / Or Total / Services Elils Eactor Factor Class Residential Commercial Industrial Industrial Other 134 1,608 87.01% Commercial Other 19 2.28 12.34% Industrial Other 160.00%</td><td>quivalent Meters/Services</td><td></td><td>; ,</td><td>, æ</td><td>,</td><td>1</td><td> 1</td><td>,</td><td></td><td>,</td></t<>	Other Meters/Services Meters/Services 1.0 2.5 5.0 8.0 16.0 Equivalent Weight Equivalent Weight Equivalent Weight Equivalent Meters/Services 1.0 2.5 5.0 8.0 16.0 Customer Allocation Factor Maters / Or Total / Or Total / Services Elils Eactor Factor Class Residential Commercial Industrial Industrial Other 134 1,608 87.01% Commercial Other 19 2.28 12.34% Industrial Other 160.00%	quivalent Meters/Services		; ,	, æ	,	1	1	,		,
Authoristical Equivalent Meters/Services 1.0 2.5 5.0 8.0 16.0 25.0 5.0 Customer Allocation Factor Customer Allocation Factor Customer Allocation Factor Percent of Total / O	Equivalent Weight 1.0 2.5 5.0 16.0 Equivalent Weight Meters/Services 1.0 2.5 5.0 16.0 Totals										
Customer Allocation Factor	Totals			•		• !	• !	1	• ;		, ;
Customer Allocation Factor Customer Allocation Factor Class Residential Commercial Industrial Other Totals	Totals Customer Allocation Factor Pe Meters /			5.0	0.8	16.0	25.0	50.0	80.0		115.0
Customer Allocation Factor Class Class Residential Commercial Industrial Other 1008 1108 1208 110	Customer Allocation Factor Pe Meters /	1001									
Customer Allocation Factor Meters / of 1 Services Bills Factor Class Residential 134 1,608 Commercial 19 228 Industrial 12 Other	Pervices Pervices	lotals									
Customer Allocation Factor Meters / of of Services Bills Factor Class Residential 134 1,608 Commercial 19 228 Industrial 12 Other	Peacation Factor Peacation Factor Peacation Factor Meters / of 1										
Class Commercial Industrial Other Class Commercial	Percentage										
Customer Allocation Factor Meters / of 1 Services Bills Fi Services Bills Fi Commercial 134 1,608 Commercial 19 228 Industrial 12 Other 1,848	Neters / Pe	;									
Neters / Pe Pe Neters / Of Services Bills Fa 1,608 1,608 1,808 1,804 1,848	Meters	Justomer Allocation Factor									
Meters / Of Services Bills Of Services Bills Factorial 134 1,608 Table 1	Meters / Of Services Bills File Estate 1,608	:		Percent							
Sidential 134 1,608 mmercial 19 228 tustrial 1 12 her 154 1,848	Services Bills From the cial 134 1,608 and the cial 154 1,608 and the cial 154 1,848 and th	Weters		of Total /							
sidential 134 1,608 wmmercial 19 228 tustrial 1 12 her 154 1,848	sidential 134 1,608 nmmercial 19 228 tustrial 1 12 her 154 1,848			ractor							
19 228	19 228 128 128 128 128 128 128 128 128 128	sidential		A7 01%							
rial 12 12 12 154 1,848	rial 12 12 154 1,848	_		12.34%							
154 1,848	154 1,848	rial		0.65%							
1,848	1,848	Other	,	%00.0							
1,848	1,848										
		, -		100.00%							

57.27%

Percent of Total / Factor

39.39%

3.34%

100.00%

0.00%

l		I	3% 1% 1% 1%	%	3% 4%	
<u>5</u>		%	26.03% 23.97% 12.63% 10.41% 23.29%	25.47%	22.03%	
[F]	Company - Rebuttal	Proposed Increase Amount	4,000,626 932,321 9,673 7,131 72,389	5,022,141	176,128	
	npany - {	o _P	↔	69	↔	
(E)	Co	Proposed Rates Sch. H-2 Col. I	19,372,255 4,822,349 86,252 75,628 383,206	24,739,691	975,534 25,715,225	25,715,224
		ŭ	₩	69		ю
Eastern Group [D]		%	26.81% 22.75% 13.17% 10.41% 21.93%	25.82%	22.03% 25.68%	
[0]	Company - As Filed	Proposed Increase <u>Amount</u>	\$ 4,121,704 884,939 10,087 7,131 68,167	\$ 5,092,029	176,128 \$ 5,268,157	
[8]	Com	Proposed Rates Sch. H-2 Col. F	\$ 19,493,333 4,774,967 86,667 75,628 378,984	\$ 24,809,579	975,534 \$ 25,785,113	\$ 25,785,113
[A]		Test Year Rates Sch. H-2 Col. E	\$ 15,371,629 3,890,028 76,580 68,497 310,817	\$ 19,717,550	799,406	
		Customer Classification	Residential Commercial Industrial Private Fire Service Other Water Revenues	Total Water Revenues	Miscellaneous Revenues Total Operating Revenues	Target Revenue Requirement (Sch. C-1, Ln. 10) Difference (Ln. 14 - Ln. 25) Less: Consolidated Revenue Adjustment¹ Over/(Short)

Recap Schedules: A-1 Rebuttal

		[a]	[ت]	[5]
	ar Proposed	Company - As Filed	Cor	Company - Rebuttal
Customer Classification	Rates Rates Sch. H-2 Col. E Sch. H-2 Col. F	Proposed Increase <u>Moount</u>	Rates Sch. H-2 Col. I	Proposed Increase Amount
Residential	\$ 11,436,957 \$ 14,555,439	\$ 3,118,483 27.27%	\$ 14,580,858	
Industrial	2,505,590 3,190,590 70,149 78,895		3,197,568	590,978 22.67%
Private Fire Service Other Water Revenues		3,434 6.71% 47,428 28.53%	54,628 214,050	
Total Water Revenues	\$ 14,331,107 \$ 18,093,197	\$ 3,762,091 26.25%	\$ 18,125,999	
Miscellaneous Revenues	725,456 857,550	132,094 18.21%	857,550	132.094 18.21%
Total Operating Revenues	\$ 15,056,563 \$ 18,950,747	\$ 3,894,185 25.86%	\$ 18,983,550	
Target Revenue Requirement (Sch. C-1, Ln. 10)	18,950,748		18,983,549	
Ultrerence (Ln. 14 - Ln. 25) Less: Consolidated Revenue Adjustment ¹	(0)		6	
Over/(Short)	(0) \$		0 \$	
)				
Consolidated Revenue Adjustment represents the increase/(decrease) in revenue requirement resulting from proposed rate consolidation.				

	[9]		%	23.01% 16.99% 15.96% 19.50% 5.89%	20.83%	60.31%	21.34%	
	E)	buttaí	Proposed Increase <u>Amount</u>	522,495 146,616 533 3,246 6,306	679,197	25,858	705,055	
		Company - Rebuttal	Propo	↔	မာ		ь	
	Ш	ర	Proposed Rates Sch. H-2 Col. I	2,792,873 1,009,785 3,875 19,893 113,394	3,939,820	68,735	4,008,555	4,008,556 (1) (1) (1) 0.00%
ierra Vista)			P PS	69	မာ		69	es es
Cochise (Bisbee, Sierra Vista)	<u></u>		%	23.77% 18.07% 15.96% 19.50% 7.31%	21.69%	60.31%	22.19%	
ı	<u>.</u>	Company - As Filed	Proposed Increase Amount	\$ 539,700 155,965 533 3,246 7,833	\$ 707,278	25,858	\$ 733,136	
2	<u>(a)</u>	- 1	Proposed Rates Sch. H-2 Col. F	2,810,078 1,019,133 3,875 19,893 114,922	3,967,901	68,735	4,036,636	4,036,636 0 0 0.00%
[4]	ζ	;	Rates Sch. H-2 Col. E	\$ 2,270,377 \$ 863,168 3,342 16,647 107,088	\$ 3,260,624 \$	42,877	\$ 3,303,500 \$	& &
			Customer Classification	Residential Commercial Industrial Private Fire Service Other Water Revenues	Total Water Revenues	Miscellaneous Revenues	Total Operating Revenues	Target Revenue Requirement (Sch. C-1, Ln. 10) Difference (Ln. 14 - Ln. 25) Less: Consolidated Revenue Adjustment¹ Over((Short)

ARIZONA WATER COMPANY
Test Year Ended December 31, 2010
Summary of Revenues by Customer
Classification - Present & Proposed Rates

[0]		%	32.34% 57.64% 0.00% 12.92% 55.60%	36.88%	60.56% 37.26%	
[4]	i de	Proposed Increase Amount	247,062 91,922 - 37 4,803	343,824	9,282	anuel/Oracle/ SaddleBrooke)
	Company - Mahuttal	Propo	67	69	₩	23,565 77,147 77,147 (San Manuel/Oracle/ 0 SaddleBrook
<u>[</u>	C	Proposed Rates Sch. H-2 Col.	1,010,949 251,386 - 324 13,442	1,276,102	24,610	1,223,565 77,147 77,147 (0 0
ō		S ch	⇔	ω.	ω	es es
San Manuel [D]		%	40.97% 39.20% 0.00% 12.92% 29.93%	40.56%	60.56%	
[0]	Company - As Filed	Proposed Increase	\$ 312,961 62,516 - 37 2,585	\$ 378,099	9,282	lanuel/Oracle/ SaddleBrooke)
[8]	Company	Proposed Rates Pro	1,076,848 221,979 324 11,225	1,310,376	24,610	1,319,969 15,017 15,017 (San Manuel/Oracle/ 0.00%
[A]	!	Test Year Rates <u>Sch. H-2 Col. E</u>	\$ 763,888 \$ 159,464	\$ 932,277 \$	15,328 \$ 947,605 \$	w w
		Customer Classification	Residential Commercial Industrial Private Fire Service Other Water Revenues	Total Water Revenues	Miscellaneous Revenues Total Operating Revenues	Target Revenue Requirement (Sch. C-1, Ln. 10) Difference (Ln. 14 - Ln. 25) Less: Consolidated Revenue Adjustment¹ Over/(Short) %

Line

No.

Customer Classification

Residential

Commercial
Industrial
Private Fire Service

Private Fire Service

Total Water Revenues

Miscellaneous Revenues

Industrial

Miscellaneous Revenues

Industrial

Miscellaneous Revenues

Industrial

Miscellaneous Revenues

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ARIZONA WATER COMPANY
Test Year Ended December 31, 2010
Summary of Revenues by Customer
Classification - Present & Proposed Rates

Exhibit Schedule H-1 Rebuttal Page 5 of 7 Witness: Reiker

		•
Line		Test Year
- (Customer Classification	Rates
2 6		Sch. H-2 Co
n =	Kesidentia	
r vo	Commercial	3,100
) (C	industrial	130,4
۸ (FINARE FIRE SERVICE	
- 00	Orner Water Revenues	7 00
တ	Total Meter	0.01
10	oral water Revenues	\$ 977.6
7		
12	Missellassin	
13	wiscendieous Revenues	12.48
14	Total Operating Personner	
15	Seniono Surano	\$0.066 \$
16		
17	Target Revenue Requirement (Set 10.1)	
18	Difference (Ln. 14 - 1 n. 25)	
19	Less: Consolidated Devices Action 1	
20	Over/(Short)	
21	%	
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25		
	Consolidated Revenue Adjustment	
54 #	the increase/(decrease) in revenue	
	resulting from proposed rate connectional	
	with the consolidation.	

	[0]				% 88 88 88	26.25%	14.36%	34.29%	10.54%		53.77%	11.09%			
	[F]		Company - Reputtal	Proposed Increase	\$ 55,150	41,070	41	6,803	\$ 103,064	6	6,718	\$ 109,782			fanuel/Oracle/ SaddieBrooke)
	[6]	2	Proposed	Rates Sch. H-2 Col. 1	\$ 856,189	197,509	324 26 644	t (2)	\$ 1,080,666	19.212		\$ 1,099,877	-	(21,051)	\$ (21,051) (San Manuel/Oracle/ 0 SaddieBrooke 0.00%
Oracle	<u>-</u>			%l 92	14.29%	0.00%	17.05%		14.50%	53.77%		15.00%			
٤	Ξ	Company - As Filed		Proposed Increase Amount	\$ 114,450 23,879	, ₹	3,383	\$ 144.750	41,72	6,718	448 470	404/0		21,855 (San Manuel/Oracle/	SaddleBrooke)
[8]		Proposed	Parado .	Sch. H-2 Col. F	\$ 915,489 180,318	324	23,223	1,119,354		19,212	\$ 1,138,566		1,116,711		0.00%
(A)		Test Year	Rates	Sch. H-2 Col. E	\$ 801,039 156,439	283	19,841	\$ 977,602		12,494	\$ 990,095		107	1,	7

ARIZONA WATER COMPANY
Test Year Ended December 31, 2010
Summary of Revenues by Customer
Classification - Present & Proposed Rates

Schedule H-1 Rebuttal Page 6 of 7 Witness: Reiker

Exhibit

Commercial	Consolidated Revenue Adjustment represents the increase/(decrease) in revenue requirement
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¹Consolidated Revenue Adjustment represents the increase/(decrease) in revenue requirement resulting from proposed rate consolidation.

ARIZONA WATER COMPANY
Test Year Ended December 31, 2010
Summary of Revenues by Customer
Classification - Present & Proposed Rates

	[6]		%	29.57% 33.78% 12.73% 0.00% 0.00%	30.86%	52.36%	
					1 11		
		<u> </u>	Proposed Increase	16,041 14,555 393	30,989	874 31,863	
	E	Rebut	roposed Inc				
		Company - Rebuttal	ā	⇔	 ↔	 	
		Ċ	1	70,282 57,645 3,482	131,410	2,543	133,953
	Ē		Proposed Rates Sch. H-2 Col.	7 6	13	13	13
			ι	↔	↔	69	ю ю
Winkelman			ı	~ • • • • •			
Win	<u></u>		%	28.61% 32.65% 26.15% 0.00% 0.00%	30.27%	52.36%	
	_	Pa	Proposed Increase	15,519 14,071 808	30,398	874 31,272	
	<u>©</u>	/ - As Fi	oposed Inc	↔	3	ю •	
		Sompany			. "		la la c
	<u>6</u>		oosed ates 2 Col. F	69,760 57,162 3,897	130,819	2,543	(0) (0) 0.00%
ľ	_		Sch. H.	↔	€	60	<i>₩</i> ₩
	_		/ear es Col. E	54,241 43,091 3,089	00,421	1,669	
	<u><</u>		Test) Rate		-		
			OJI	07	es	%	
							i. 10)
							. C-1, Ln djustmer
					es	S	ent (Sch 25) venue A
			cation	rvice evenues	Revenu	Revenu	equirem 14 - Ln. ated Re
			Classifi	ential rercial rial Fire Se Water R	al Water	llaneous rating Re	venue R nce (Ln. Consolid Short)
			ustomer	Reside Comm Industr Private Other \	Tot	Miscel	arget Rev Differer Less: (Over/(S
	[8] [A] [B]	1	Test Year Proposed Rates Rates Projection Sch. H-2 Col. E. Sch. H-2 Col. E.	Residential \$ 54,241 \$ 69760 \$ Commercial 43,091 57,162 57,162 57,162 7,162	Total Water Revenues \$ 100,421 \$ 130,819 \$	2,543 \$ 133,362	15 Revenue Requirement (Sch. C-1, Ln. 10) \$ ference (Ln. 14 - Ln. 25) \$ ss: Consolidated Revenue Adjustment ¹ ser/(Short) \$ \$

ARIZONA WATER COMPANY Test Year Ended December 31, 2010 Detail Analysis of Revenue by Class

No. of the control		<u>[4]</u>	[8]	<u>[</u>	[0]	[E]	[F]	[6]	Ξ	EL	[7]	<u>\</u>
Comparison Com		Average	•		:		Bill Co	ount Water Reven	nes			
Company Comp		Number of	Average	Test Vear	Cust. Growth	Adjusted	Com	pany - As Filed		Ľ.	npany - Rebuttal	
1,721 1,0291 1,525,73 1,526,729 1,526,029 1,526,029 1,526,039	Detail Class of Service	Customers	Consumption	Rates	(<u>15-7)</u>	C + D	Proposed Rates	increase [F · E]	%		Increase [I - E]	%
1,721 10,551 1,565,751 5,250 1,501,741 1,503,277 3,622.66 2,625.67 1,501,752 3,260,593 1,501,752 3,260,593 1,501,752 3,260,593 1,501,752 3,260,593 1,501,752 3,260,593 1,501,752 3,260,593 1,501,752 3,260,593 1,501,752 3,260,593 1,501,752 3,260,593 1,501,752 3,260,593 1,501,752 3,260,593 1,501,752 3,260,593 1,501,753 1,501	Residential 5/8 x 3/4 -inch	29,748	6,313			12 510 329			1		•	I
Column	Residential 1-inch Residential 1.5 inch	1,721	10,591	1,595,791		1,601,041		9	27.25%	15,801,312	ന	26.31%
11 11 11 11 11 11 11 1	Residential 2-inch	. ?	,		•	•	•	2	0000	200'100'1	116,000	24.13%
10 622,440 30,244 343 527,740 66,884 77,770 26,278 76,786 26,787 77,786 26,787 77,786 77,786 26,787 77,786 26,787 77,786 26,787 77,786 26,787 77,786 26,787 77,786 26,787 77,786 26,787 77,786 26,787 77,786 26,787 77,786 26,787 77,786 26,787 77,787 77,786 26,787 77,787	Residential 3-inch	40	131,798	422,771	310	423,082	524,093	101,012	23.88%	524.172	101 090	0.00%
13 17.54 4.15 4	Residential 4-inch	4 5	272,408	52,241	33	52,274	65,984	13,710	26.23%	66,153	13.879	26.55%
1,3,0,0, 48,4,68 307 487713 616,802 133,098 26,47% 616,312 101,599 100,00%	Residential 6-inch	5 5	977,179	297,002	188	297,190	373,898	76,708	25.81%	374 954	77.764	26.33%
17.20 17.2	Residential 8-inch	2	73,057	487,406	307	487,713	616,802	129,089	26.47%	618.312	130,599	26.11.76
1988 1988	Residential 10-inch		,	•		•	,	. •	0.00%	! ! !	200	0.00%
4.13 2.16.48 370.249 370.3696 700.519 153.2 24.475 710,7711 3.27 22.468 1656.453 14.729 1.00.698 700.019 132.444 2.2.477, 4.16.699 137.114 3.28 22.468 1656.453 14.729 1.00.698 70.00.91	Commercial 5/8 x 3/4 -inch	2007	, ,	, ,			•	•	0.00%	,	. ,	0.00 7000
227 62.48 1968-452 14.78 14.78 575,666 703,150 129,444 22.27% 7.16,590 137,014 20 207,275 207,014 20 207,275 207,014 20 207,275 207,014 20 207,275 207,014 20 207,275 207,014 20 207,275 207,014 20 207,275 207,014 20 207,275 207,014 20 207,014 20 207,014 20 207,275 207,014 20	Commercial 1-inch	/96	297'9	376,640	226	376,866	468,705	91,839	24.37%	478 637	101 771	27.00%
100% 100%	Sommercial 1.5-inch	5	21,648	5/0,218	3,447	573,666	703,150	129,484	22.57%	710,680	137.014	23.88%
25 200,275 200,245 14129 1589,552 1509,215 389,533 273,903 273,903 275	Commercial 2-inch	327	, 60	, ,	1		•	•	0.00%	•		%00.07 0.00
22 256,588 319,097 2,114 361,200 451,688 51,098 61,098 173,914 22,549% 61,098 173,914 22,549% 61,098 173,914 22,549% 61,098 173,914 22,549% 61,098 173,914 22,549% 61,098 173,914 22,549% 61,048 173,914 22,549% 61,048 173,914 22,549% 61,048 173,914 22,549% 61,048 173,914 22,549% 61,048 173,914 22,549% 61,048 173,914 22,549% 61,048 173,914 22,549% 61,048 173,914 22,549% 61,048 173,914 22,499% 61,04	Commercial 3-inch	120	02,458	1,655,453	14,129	1,669,582	2,038,215	368,633	22.08%	2.043.485	373 903	22.30%
1,	Commercial 4-inch	3 6	207,102	359,087	2,114	361,200	450,685	89,484	24.77%	453,983	92,783	25.69%
1,785 1,785 14,895 14,2485 11,733.14 13,314	Commercial 6-inch	27	590,000	311,183	562	311,745	382,139	70,394	22.58%	384,261	72.516	23.26%
Hamber Company (1977)	Commercial 8-inch	ō c	290,402	346,582	1,788	548,370	671,684	123,314	22.49%	690,859	142.489	25.98%
1,000,000,000,000,000,000,000,000,000,0	Commercial 10-inch	7	104,929	48,066	533	48,599	60,389	11,790	24.26%	60,444	11.845	24.37%
6 210,585 3,289 3,289 4,87 1,077 30,09% 4,287 1,077 30,09% 4,287 1,077 30,09% 22,276 5,231 6,096 9,63% 4,621 1,007 21,095 22,1095 25,069 3,574 1,009% 25,069 3,574 1,009% 22,0	ndustrial 5/8 x 3/4 -inch	•	•			•	1		0.00%	-	2	%000
Linch 29 106 272 2276 57311 508 4.287 1077 3357% 4.887 1077 224 68 497 68 497 75 68 91 000% 5.599 4.621 5.009 5.50	ndustrial 1-inch		300 3	, 0				1	0.00%	•	,	%000
6 210.983 52.276 57.311 5.036 9.63% 56.837 4.621 2 211,104 21,095 21,095 21,095 25,069 3,974 18,44% 25,069 3,974 224 68,497 68,497 75,628 7,131 10,41% 75,628 7,131 224 68,497 75,628 7,131 10,41% 75,628 7,131 10,41% 75,628 7,131 224 10,6272 222,190 289,109 56,919 24,51% 289,870 61,890 10,00% 52,219 0,00% 55,919 24,51% 55,899 3,507 10,00% 10,00% 10,00% 10,00% 10,00% 10,00% 10,00% 10,00% 1	ndustrial 1.5-inch	t ,	5,235	3,209		3,209	4,287	1,077	33.57%	4,287	1,077	33.57%
2 211.104 21.095 25.069 3.974 18.84% 56.897 4.821 2-Inch 2-24 68.497 68.8497 75.628 7.131 10.41% 75.628 7.131 2-Inch 2-24 10.6272 222.190 229.109 56.919 24.996 5.221 2.34 25.99% 24.996 2.221 2.34 25.99% 24.996 2.221 2.34 25.99% 24.996 2.221 2.34 25.99% 24.996 2.221 2.34 25.99% 24.996 2.221 2.34 25.99% 24.996 2.22 2.34 2.33 277 2.33 2.33	ndustrial 2-inch	œ	210 983	370 03	•		1	٠	0.00%	,	, 1	0.00%
2.14	ndustrial 3-inch	2 0	211,303	24,275		52,276	57,311	5,036	9.63%	26,897	4,621	8.84%
24 68,497 75,628 7,131 10,41% 75,628 7,131 10,41% 75,628 7,131 10,41% 75,628 7,131 10,41% 75,628 7,131 10,41% 75,628 7,131 10,41% 75,628 7,131 10,41% 75,628 7,131 10,41% 75,628 7,131 10,41% 75,628 7,131 10,41% 75,628 7,131 10,41% 75,628 7,131 10,41% 75,628 7,131 10,41% 75,628 7,131 10,41% 75,628 7,131 10,41% 75,628 7,131 10,41% 75,628 7,131 10,41% 75,628 7,131 10,41% 75,628 7,131 10,41% 75,638 70 10,00% 75,938	ndustrial 4-inch			200,14	•	580,12	25,069	3,974	18.84%	52,069	3,974	18.84%
224 68.497 75,628 7,131 10.0% 2-inch 19,775 19,775 24,999 5,134 25,99% 75,528 7,131 10.0% 4-inch 2 427,857 52,491 52,491 56,919 24,51% 299,896 5,221 5,221 5,221 10.0% 4-inch 2 427,857 52,491 52,491 56,919 24,51% 299,896 5,221 5,210 10.0% 4-inch 2 427,857 52,491 55,491 56,919 24,51% 299,896 5,221 5,000% 4-inch 427,857 52,491 55,491 56,919 24,51% 299,896 5,221 5,000% 4-inch 427,857 52,491 56,919 5,491 56,919 24,51% 299,896 5,221 5,000% 4-inch 427,857 52,491 56,919 5,491 56,919 24,51% 299,896 5,221 5,000% 4-inch 6,370 6,370 8,335 1,965 30,94% 8,352 1,982 3,000% 4-inch 733,437 8,19,117,550 8,24,809,579 8,509,079 5,822,141 2	idustrial 6-inch	,		•		,		•	0.00%	•	,	0.00%
24 68,497 75,628 7,131 10,41% 75,628 7,131 24 108,272 232,190 232,190 239,109 56,31 24,51% 233,870 61,680 24,996 5,221 0.00% 2 427,857 52,481 56,31 4,149 7,11% 550,99 3,507 0.00% 2 451,000 6,370 6,370 8,335 1,965 30,84% 8,352 1,982 0.00% 2 33,437 8,997 \$ 19,684,174 \$ 33,377 \$ 19,717,550 \$ 24,809,579 \$ 5,092,029 25,82%	dustrial 8-inch	1	ı				•	1	0.00%		•	0.00%
224 68,497 66,497 75,628 7,131 10,47% 75,628 7,131 2-Inch 29 106,272 232,190 233,190 289,109 56,919 24,51% 293,870 61,680 10,00%	idustrial 10-inch	•	,		,	٠,	1 1	•	0.00%		i	0.00%
29 106,272 232,190 233,190 289,109 5,134 25,96% 24,996 5,221 2	rivate Fire Serivce	224	•	68.497	,	68 407	, 17 003 01	, ,	0.00%	3 (•	0.00%
uch 29 106,272 232,190 289,109 5,134 25,69% 24,996 5,221 2 uch 29 106,272 232,190 289,109 56,819 24,51% 259,870 61,680 34-linch 2 427,857 52,481 56,631 4,149 7,91% 55,999 3,507 61,680 3,507 61,680	ther Water Revenues					62,00	020,07	1,131	%L47%	979'9/	7,131	10.41%
och 29 106,272 232,190 289,109 56,919 24,51% 293,870 61,880 24,190 56,919 24,51% 293,870 61,880 24,190 56,919 24,51% 293,870 61,880 24,190 56,919 24,51% 293,870 61,880 24,190 56,919 24,51% 293,870 61,880 24,190 56,919 24,51% 293,870 61,880 24,190 56,919 24,51% 293,870 61,880 24,190 56,919 24,51% 293,870 61,880 24,190 56,919 24,51% 293,870 61,880 24,190 56,919 24,51% 293,870 61,880 24,190 56,919 24,51% 293,870 61,880 24,190 56,919 24,51% 293,870 61,880 24,190 56,919 24,51% 293,870 51,91% 24,190 56,919 51,91% 24,190 56,919 51,91% 24,190 50,91%	Public Fire Hydrant		i	•		٠	٠		7800			
106,772 232,190 232,190 26,631 4,149 7,51% 293,870 61,680 3,471 61,680 6,370 6,370 6,370 6,370 6,370 6,370 6,370 6,370 6,370 6,370 8,335 1,965 30,80% 6,370 6,370 6,370 8,335 1,965 30,80% 6,370 6,370 6,370 8,335 1,965 30,80% 6,370 6,370 6,370 8,335 1,965 30,80% 6,370 6,370 6,370 8,335 1,965 30,80% 6,370 6,370 8,335 1,965 30,80% 6,370 6,370 8,335 1,965 30,80% 6,370 6,370 8,335 1,965 30,80% 6,370 6,370 8,335 1,965 30,80% 6,370 6,370 8,335 1,965 30,80% 6,370 6,370 8,335 1,965 30,80% 6,370 6,370 8,335 1,965 30,80% 6,370	Coin Machine		•	19,775	1	19,775	24 909	5 134	25.96%	34 006	, ,	%00.0
29 106,272 222,190 289,109 56,919 24,51% 293,870 61,680 and 234,10d and 2 427,857 52,481 56,631 4,149 7,91% 55,989 3,507 and 234,10d and 2 427,857 52,481 56,631 4,149 7,91% 55,989 3,507 and 234,10d and 2 4,149 7,177,550 \$ 24,809,579 \$ 5,092,029 and 2 5,002,141 2 2 23,437 \$ 19,717,550 \$ 24,809,579 \$ 5,092,029 and 2 2,1739,691 \$ 5,022,141 and 2 2,1739,691 \$ 5,022,141 and 2 2,1739,691 \$ 5,022,141 and 2 2,1739,691 \$ 24,739,691 \$ 5,022,141 and 2 2,1739,691 \$ 5,022,141 and 2 2,1739,691 \$ 24,739,691 \$	Construction Water Z-Inch	,	•		•)) ; !	<u>,</u>	0.00%	066,42	2,421	26.40%
33.437 8.997 \$ 19,684,174 \$ 33,377 \$ 19,717,550 \$ 24,809,579 \$ 5,092,029	Construction Water 3-Inch	29	106,272	232,190		232,190	289,109	56.919	24.51%	293.870	61 800	0.00%
0 451,000 6,370 6,370 8,335 1,965 30.84% 8,352 1,982 3 1,009 0,00%	Sales for Decale 6.0 × 2.4 ×		427,857	52,481	,	52,481	56,631	4,149	7.91%	55.989	200,10	20.30%
0 451,000 6,370 6,370 8,335 1,965 30.84% 8,352 1,982 3 33,437 8,19,684,174 \$ 33,377 \$ 19,717,550 \$ 24,809,579 \$ 5,092,022 25 82% \$ 5,022,141 2	Sales for Bessle 3/6 x 3/4-1/	-			•	•	. '	· '	0.00%	20,1	ָרָי י	0.00%
0.00% 0.00%	Sales for Bessle 1 6 look	•				,	•		%00.0	•	•	%00.0 %00.0
0 451,000 6,370 6,370 8,335 1,965 30.8% 8,352 1,982 3 133,437 8,997 \$ 19,684,174 \$ 33,377 \$ 19,717,550 \$ 24,809,579 \$ 5,092,029 25,82% \$ 24,739,691 \$ 5,022,141 2	Sales for Resale 2-Inch	,	r			•	•	,	%00.0		ı	%00.0 0.00%
0 451,000 6,370 - 6,370 8,335 1,968 8,352 1,982 3 h 33,437 8,997 \$ 19,684,174 \$ 33,377 \$ 19,717,550 \$ 24,809,579 \$ 5,092,029 25,82% \$ 24,739,691 \$ 5,022,141 2	Sales for Resale 3-inch	•	•		•	*		,	0.00%	•	,	%000
0 451,000 6,370 6,370 8,335 1,965 30.84% 8,352 1,982 3 0.84% 8,352 1,982 3 0.00% 0.0	Sales for Resale 4-Inch	•				•	1	•	%00.0	r	,	%00.0
h 8,335 1,965 30.84% 8,352 1,982 3 3 3 437 8,997 \$ 19,684,174 \$ 33,377 \$ 19,717,550 \$ 24,809,579 \$ 5,092,029 2 5,82% \$ 24,739,691 \$ 5,022,141 2	Sales for Resale 6-Inch	,	, ,	, ;	i	•	•	,	0.00%	ı		%00.0
33,437 8,997 \$ 19,684,174 \$ 33,377 \$ 19,717,550 \$ 24,809,579 \$ 5,032,029 25.82% \$ 24,739,691 \$ 5,022,141	Sales for Resale 8-inch	5	451,000	6,370	i	6,370	8,335	1,965	30.84%	8,352	1.982	31.11%
33,437 8,997 \$ 19,684,174 \$ 33,377 \$ 19,717,550 \$ 24,809,579 \$ 5,082,029 25.82% \$ 24,739,691 \$ 5,022,141	Sales for Resale 10-Inch		•	•	,		•	•	0.00%	1	1	%00.0
33,437 \$ 19,684,174 \$ 33,377 \$ 19,717,550 \$ 24,809,579 \$ 5,092,029 25,82% \$ 24,739,691 \$ 5,022,141		ı	•	•		1		ı	%00.0		•	0.00%
5,022,141	Totals	33.437		10 GBA 474	770 00	775		- !				
			- -	19,004,174	33,3//	19,717,550	24,809,579	Ħ		24,739,691	5,022,141	25.47%

ARIZONA WATER COMPANY Test Year Ended December 31, 2010 Summary Analysis of Revenue by Class

区	:	%	26.03% 23.97% 12.63% 10.41% 23.29%	25.47%	22.03%		
[7]	any - Rebuttal	Increase [I - E]	4,000,626 932,321 9,673 7,131 72,389	5,022,141	176,128		
E		Proposed Rates	19,372,255 \$ 4,822,349 86,252 75,628 383,206	24,739,691 \$	975,534 25,715,225	25,715,224 0	00.00
Ξ		%	26.81% \$ 22.75% 13.17% 10.41% 21.93%	25.82% \$	22.03%	€	•
[9]	Bill Count Water Revenues Company - As Filed	Increase [F - E]	\$ 4,121,704 20 884,939 22 10,087 11 7,131 10 68,167 2	\$ 5,092,029 29	176,128 2		
Eastern Group [F]	Bill Co.	Proposed Rates	19,493,333 4,774,967 86,667 75,628 378,984	24,809,579	975,534 25,785,113	25,785,113	· 00·0
(E)	Adjusted	T.Y. Rates [C.+D]	\$ 15,371,629 \$ 3,890,028 76,580 68,497 310,817	\$ 19,717,550 \$	799,406	↔	
[0]	Cust. Growth	Adjustment (<u>IS-7)</u>	\$ 10,578 \$ 22,799	\$ 33,377			
[5]		Test Year <u>Rates</u>	\$ 15,361,051 3,867,229 76,580 68,497 310,817	\$ 19,684,174	799,406		
(8)	ı	Average Consumption	7,335 8 39,554 142,421 - 127,433	8,997			
[A]	Average	Number of Customers	31,560 1,611 12 224 31	33,437	,		
·		Summary Class of Service	Total Residential Total Commercial Total Industrial Total Private Fire Total Other Water Revenues	Totals	Miscellaneous Revenues Total Revenue Generated	Target Rev. Rqmt. (Sch. C-1) Difference	Less: Consolidated Revenue Adj. Over(Short) %
		를 일 -	- N W 4 M @ 1	~ oo o	'		5 6 7 7 8 6 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2

Name			Ē	<u>.</u>	<u>.</u>]	Ξ	2	Ē	≘	<u>-</u>	₹.
			ı				Bill Co	unt Water Revenue	Se			
Commencial Section Commenc		Average Number of	Average	Tect Veer	Cust. Growth	Adjusted	Comp	any - As Filed		11	pany - Rebuttal	
Till 1019 6321 6 662344 6 1000 6 5031 6 1200 6 12		Customers	Consumption	Rates	Adjustment (IS-7)	C + D	Proposed Rates	Increase [F - E]	%	Proposed Rates	increase [I - E]	%
1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	Residential 5/8 x 3/4 -inch Residential 1-inch	21,019			1,080	8,824,323			27.80%	11,296,942	2,472,619	28.02%
124 174 174 174 174 175 189 200,546 460,517 175 17	Residential 1.5-inch	, ,	905'01	1,416,049	858	1,418,907	1,770,407	351,500	24.77%	1,772,846	353,938	24.94%
13 713.057 481.71 581.22 581.40 582.72 565.84 137.3 565.84 137.3 565.84 137.3 565.84 137.3 565.84 137.3 565.84 137.3 565.84 137.3 565.84 137.3 565.84 137.3 565.84 137.3 565.84 137.3 565.84 137.3 565.84 137.3 565.84 137.3 565.84 137.3 565.84 137.3 565.84 137.3 565.84 565	Residential 2-inch	25	124,157	356,351	198	356.549	450 517	93 968	26.35%	751 651	06 402	0.00%
10 77.0.57 487,002 318 287113 57.288 76.02 25.814 618.312 130,589 177784 17.0.57 487,002 318 287113 51.580 17.0.57 487,002 318 287113 51.580 17.0.57 487,002 31.0.57 487,002 3	Residential 3-inch	4	272,408	52,241	33	52.274	65 984	13,710	26.23%	451,551	13 879	76.02
13	Residential 4-inch	10	622,119	297,002	188	297,190	373,898	76.708	25.83%	374 954	10,01	26.55%
1,000, 1	Residential 6-inch	13	713,057	487,406	307	487,713	616 802	129 089	26.47%	618 212	130,704	26.17%
100 100	Residential 8-inch		•	. •		! !	100	20,021	0000	2.0,010	660,00	26.703
1,488 18,6	Residential 10-inch	1	,	٠		,	,	•	200.0	•	•	0.00%
282 24-040 49,663 3,622 434,586 593,06 67/20 21334 59,6863 25 74,878 1007,48 7 122 1015,388 1236,872 12114 1242,510 227,142 25 296,004 41,822 1151 2177,146 21,176	Commercial 5/8 x 3/4 -inch	383	7,468	195,193	724	195,917	241 943	46 026	23.49%	242 417	78 500	0.00%
200 74.878 1.007/46 7 622 1.015368 12.20.887 22.451 22.178	Commercial 1-inch	292	24,040	430,963	3.622	434,585	530,306	95,720	22.43%	531 448	40,000	23.73%
25 20196 4 200 04 20 1015 38 1007 74 1015 38 1	Commercial 1.5-inch	•		. •		· •		27,700	0.00%	1	000'00	0.000
12 2709.094 286,185 21/61 2873.46 2672.78 65/22 55/34 26/868 22.71% 20/8031 41/87 41	Commercial 2-inch	220	74,878	1,007,746	7,622	1 015 368	1 239 887	224 519	22 11%	1 242 540	227 142	0.00
11 2778 648 177 822 1312 179134 2798 40680 251918 227778 220321 44.1867 179134 27918 445.086 5278 445.086 5278 445.086 5278 445.086 5278 445.086 5278 445.086 5278 445.086 5278 445.086 5278 445.086 52.248 64.287 100.237 2249% 60.387 100.037 2249% 60.387 100.037 2249% 60.387 100.037 2249% 60.387 100.037 2249% 60.387 100.037 2249% 60.387 100.037 2249% 60.387 100.037 2249% 60.387 100.037 2249% 60.387 100.037 2249% 60.387 100.037 2249% 60.387 100.037 100.	Commercial 3-inch	25	209,084	285,185	2.161	287.346	352,369	65,013	22.11.70	252,210	241,122	22.37
12 718 648 441 622 4,006 445 840 645 877 100,237 22,469 547,216 101,518 100,000 100,00	Commercial 4-inch	1	277,033	177,822	1.312	179 134	219.819	40,685	22.72%	250,212	41.187	26.22
2 184,929 46,066 533 48,599 60,386 11,790 0,00% 60,444 11,845 60,386 11,790 0,00% 60,044 11,845 60,386 11,790 0,00% 60,044 11,845 60,386 11,790 0,00% 60,044 11,845 60,386 11,790 0,00% 60,044 11,845 60,386 11,790 0,00% 6	Commercial 6-inch	12	718,648	441,632	4,008	445.640	545 877	100,237	22.49%	547 246	101,157	22.29
2-Inch 4 299,202 46,805 50,631 3,825 817 4,212% 3,195 94	Commercial 8-inch	2	184,929	48,066	533	48.599	60.389	11,790	24.26%	017,140	11.07	24.7270
2-Inch 2-246 2246 3,195 947 27246 3,195 947 3710 4 2292,202 46,805 44,805 50,631 3,825 947 18,447 18	Commercial 10-inch		,	. •			20,'00	2	0.00.0	t '99	2	24.37
3 5 5914 2248 21495 947 41294 3,195 947 41294	Industrial 5/8 x 3/4 -inch		1			•			0.00	. ,	1	0.00%
4 299,202 48,805 46,805 50,631 3,825 817% 50,081 3,825 817% 50,081 3,825 817% 50,081 3,874 81,095 21,095 21,096 25,083 3,974 81,095 21,095 21,096 25,083 3,974 81,095 21,095 21,096 25,083 3,974 81,095 21,095 21,096 25,083 3,974 81,095 21,095 21,096 21,095 21,096	Industrial 1-inch	ო	5,911	2,248		2.248	3 195	476	42 12%	3 195	770	5.0.0
4 299,202 46,805 5,0631 3,825 81,7% 50,831 3,825 8,774 184,84 25,069 3,874 184,84 25,069 3,874 184,84 25,069 3,874 184,84 25,069 3,874 184,84 25,069 3,874 184,84 25,069 3,874 184,84 25,069 3,874 184,84 25,069 3,874 184,84 25,069 3,874 184,84 25,069 3,874 184,84 25,069 3,874 184,84 25,069 3,874 184,874 165,164 19,775 19,725	Industrial 1.5-inch	•	•			! !		,	%000	}	Ť,	0.00
2 211,104 21,095 21,095 3,974 18 84% 25 099 3,974 Lanch 163 129,222 129,222 129,222 16,471 19,775 24,999 5,134 26,749 6,719 20,00% Example 1 162,250 10,810 10,810 13,929 3,122 289% 166,748 37,486 Loop 1 451,000 6,370 6,370 8,335 11,985 3,762,094 8,352 11,985 000% Loop 1 451,000 6,370 6,370 8,335 11,985 3,762,094 8,125,999 \$ 3,794,899 10,00% Loop 1 451,000 6,370 6,370 8,335 11,985 3,762,094 8,352 11,985 000% Loop 1 451,000 6,370 8,335 11,985 3,762,094 8,352 11,985 000% Loop 1 451,000 6,370 8,335 11,985 3,762,094 8,352 11,985 000% Loop 1 451,000 6,370 8,335 11,985 3,762,094 8,352 11,985 000% Loop 1 451,000 6,370 8,335 11,985 3,762,094 8,352 11,985 11,9	Industrial 2-inch	4	299,202	46,805		46,805	50.631	3 825	8 17%	50 631	3 825	0.00
2-Inch	Industrial 3-inch	2	211,104	21,095		21,095	25,069	3,974	18.84%	25,069	3,974	18.84%
163 51,194 54,628 3,434 677% 54,628 3,434 677% 54,628 3,434 163	Industrial 4-inch	•		•		1	,	•	0.00%		. •	0.00%
163 51,194 51,194 54,628 3,434 6.71% 54,628 3,434 6.71% 54,628 3,434 6.71% 54,628 3,434 6.71% 54,628 3,434 6.71% 54,628 3,434 6.71% 54,628 3,434 6.71% 54,628 3,434 6.71% 54,628 3,434 6.71% 54,628 3,434 6.71% 54,628 5,221 0.00% 128,250 10,810 10,810 113,929 17,210 28,88% 136,748 37,486 17,344 17,410 18,2250 10,810 113,929 17,210 28,88% 13,64	moust all o-men	•				,	•		0.00%	•		0.00%
163 51,194 51,194 54,628 3,434 677% 54,628 3,434 677% 54,628 3,434 1 677% 54,628 3,434 1 677% 54,628 3,434 1 677% 54,628 3,434 1 677% 54,628 3,434 1 677% 54,628 3,434 1 677% 54,628 3,434 1 677% 54,628 3,434 1 677% 54,628 3,434 1 677% 54,628 3,434 1 677% 54,628 3,434 1 677% 54,628 3,434 1 677% 54,628 3,434 1 677% 54,628 3,434 1 677% 54,628 3,434 1 677% 54,628 3,434 1 677% 54,628 37,438 1 677% 54,628 3,434 1 677% 54,628 3,434 1 677% 54,628 3,434 1 677% 54,628 3,434 1 677% 54,628 3,434 1 677% 54,628 3,434 1 677% 54,628 3,434 1 677% 54,628 3,434 1 677% 54,628 3,434 1 677% 54,628 3,434 1 677% 54,628 3,434 1 677% 54,628 3,728,438 3 1 678,438 1 677% 54,628 3,728,438 3 1 678,438 1 677% 54,628 3,728,438 1 677% 54,628 3,728,438 3 1 678,438 1 677% 54,628 3,728,438 3 1 678,438 1 677% 54,628 3,728,438 3 1 678,438 1 677% 54,628 3,728,438 3 1 678,438 1 677% 54,628 3,728,438 3 1 678,438 1 677% 54,638 3 1 678,438 1 677% 54,638 3 1 678,438 1 677% 54,638 3 1 678,438 1 677% 54,638 3 1 678,438 1 677% 54,638 3 1 678,438 3 1 678,438 1 677% 54,638 3 1 678,43	Industrial 10-inch	•	ı			•	,	•	0.00%	•	•	0.00%
2-Inch 20 88,035 129,282 14,628 3,434 6,71% 54,628 3,434 6,71% 54,628 3,434 6,71% 54,628 3,434 6,71% 54,628 3,434 6,71% 54,628 88,635 129,282 129,262 166,471 37,210 28,78% 166,748 37,446 3,144 10ch 1 162,250 10,810 13,929 3,120 28,88% 13,954 3,144 10ch 1 162,250 10,810 13,929 3,120 28,88% 13,954 3,144 10ch 1 160,000 10,000	Private Fire Serivce	163	•			. :		i.	%00.0	•	,	%00.0
2-inch 20 85,035 129,262 129,262 166,471 37,210 28,68% 24,996 5,134 466 41,000% 10,00% 10,810 13,929 3,120 28,86% 13,954 37,446 10,810 13,929 3,120 28,86% 13,954 3,144 10,810 13,929 3,120 28,86% 13,954 3,144 10,810 13,929 10,00% 10,0	Other Water Revenues	3	•	91,134		981,134	54,628	3,434	6.71%	54,628	3,434	6.71%
19,775 24,999 5,134 20,00% 24,996 5,221 20 85,035 129,262 129,262 166,471 37,210 28,1896 13,954 37,486 Hinch 1 162,250 10,810 10,810 13,929 37,210 28,1896 13,954 37,486 Hinch 1 162,250 10,810 10,810 13,929 37,210 28,1896 13,954 37,446 10 451,000 6,370 6,370 6,370 8,335 1,965 30,84% 8,352 1,982 23,792 9,240 \$ 14,308,460 \$ 22,647 \$ 14,331,107 \$ 18,093,197 \$ 3,762,091 \$ 6,26% \$ 18,125,999 \$ 3,794,893	Public Fire Hydrant	•	,	ı					2000			0
20 85,035 129,262 129,262 166,471 37,210 28.79% 166,748 37,486 170,000% 13,929 3,120 28.89% 13,954 3,144 170,000 6,370 6,370 6,370 8,335 11,965 30.64% 8,352 11,982 37,94,893	Coin Machine		•	19 775		19 776	000	1 2 2 2	800.90	, 000	, c	0.00%
20 85,035 129,262 129,262 166,471 37,210 28,79% 166,748 37,486 11c2,250 10,810 10,810 13,929 3,120 28,89% 13,954 3,144 11c2,250 10,810 10,810 13,929 3,120 28,86% 13,954 3,144 11c2,250 10,810 10,810 13,929 3,120 28,86% 13,954 3,144 11c2,250 10,810 12,810	Construction Water 2-Inch	ı	,) :- :- :-		2 '	506,43	ָלָ בַּיְ	0.00%	066,47	177'C	26.40%
Hinch 1 162,256 10,810 10,810 13,929 3,120 28 86% 13,954 3,144 27 10,00%	Construction Water 3-Inch	20	85.035	129 262		129 262	166 474	27.010	20.00%	740	. 707	0.00
Hindh - 1,120	Construction Water 4-Inch	-	162,250	10,202		10.810	13 020	57,710	20.79%	12,064	37,486	29.00%
0.00% 0.00%	Sales for Resale 5/8 x 3/4-Inch)) !		2 '	0,50	0,120	20.00%	t (0, '0)	, 1.	860.62
0 451,000 6,370 6,370 8,335 1,965 30.84% 8,352 1,982 3 23,792 9,240 \$ 14,308,460 \$ 22,647 \$ 14,331,107 \$ 18,093,197 \$ 3,762,091 26.25% \$ 18,125,999 \$ 3,794,893	Sales for Resale 1-inch	•		,		. ,	ı	1	8000		,	0.00%
0 451,000 6,370 6,370 8,335 1,965 30.84% 8,352 1,982 3 792 9,240 \$ 14,308,460 \$ 22,647 \$ 14,331,107 \$ 18,093,197 \$ 3,762,091 26.25% \$ 18,125,999 \$ 3,794,893 2	Sales for Resale 1.5-Inch	•		•				•	800.0	•	•	0.00%
0.00% - 0.00%	Sales for Resale 2-Inch	•					•	•	8000	•		0.00
0.00% 0 451,000 6,370 6,370 8,335 1,965 30.84% 8,352 1,982 0.00% 0 0.00% 0 23,792 9,240 \$ 14,308,460 \$ 22,647 \$ 14,331,107 \$ 18,093,197 \$ 3,762,091 26,25% \$ 18,125,999 \$ 3,794,893	Sales for Resale 3-Inch	1	,			. ,	ı	t	0.00%	,		0.00%
0 451,000 6,370 6,370 8,335 1,965 30.84% 8,352 1,982 0.00%	Sales for Resale 4-Inch	•	•	•		•	. ,	٠ ،	%00.0 0.00%			%00.0
23,792 9,240 \$ 14,308,460 \$ 22,647 \$ 14,331,107 \$ 18,093,197 \$ 3,762,091 26.25% \$ 18,125,999 \$ 3,794,893	Sales for Resale 6-Inch	0	451,000	6,370		6,370	8,335	1.965	30.84%	8.352	1 982	31 11%
23,792 9,240 \$ 14,308,460 \$ 22,647 \$ 14,331,107 \$ 18,093,197 \$ 3,762,091 26.25% \$ 18,125,999 \$ 3,794,893	Sales for Resale 8-inch	•	r				;		%000	100	100'.	%000
23,792 9,240 \$ 14,308,460 \$ 22,647 \$ 14,331,107 \$ 18,093,197 \$ 3,762,091 26,25% \$ 18,125,999 \$ 3,794,893	Sales for Resale 10-Inch	1	•	i			•	•	0.00%	,	•	0.00%
23,722,031 26,294 \$ 14,308,480 \$ 22,647 \$ 14,331,107 \$ 18,093,197 \$ 3,762,091 26,25% \$ 18,125,999 \$ 3,794,893	Totals	22 702	- 1	000					•			
	lotals	73/197	- 11	14,308,460	22,647	14,331,107	18,093,197			18,125,999	3,794,893	26.48%

<u> </u>	Average Line Number of Service Customers	Total Residential 22,0 Total Commercial Total Industrial Total Private Fire Total Other Water Revenues	Totals 23,	Miscellaneous Revenues Total Revenue Generated	Target Rev. Rqmt. (Sch. C-1) Difference	Less: Consolidated Revenue Adj. Over/(Short) %
7		22,655 944 9 163 21	23,792			
<u> </u>	Average Consumption	7,633 \$ 45,878 181,861	9,240	•		
<u>.</u>	Test Year <u>Rates</u>	\$ 11,434,292 2,586,608 70,149 51,194 166,217	1 11	725,456		
<u>5</u>	Cust. Growth Adjustment (1S-7)	\$ 2,665	\$ 22,647			
Ш	Adjusted T.Y. Rates [C + D]	\$ 11,436,957 2,606,590 70,149 51,194 166,217	- 1 11	725,456	1	'
[e] [r.] [6]	Bill Co Com Proposed Rates	\$ 14,555,439 3,190,590 78,895 54,628 213,645	\$ 18,093,197	857,550 \$ 18,950,747	18,950,748	000
<u></u>	Bill Count Water Revenues Company - As Filed Increase	\$ 3,118,483 584,000 8,746 3,434 47,428	\$ 3,762,091	132,094		
Ξ	les %	27.27% 22.40% 12.47% 6.71% 28.53%	26.25%	18.21%		
Ξ	Com Proposed Rates	\$ 14,580,858 \$ 3,197,568 78,895 54,628 214,050	\$ 18,125,999 \$	857,550 \$ 18,983,550	18,983,549	00.0
2	Company - Rebuttal Increase [I - E]	3,143,902 590,978 8,746 3,434 47,833	3,794,893	132,094		
室	%	27.49% 22.67% 12.47% 6.71% 28.78%	26.48%	18.21%		

	Δνοτασο	1		4	7 7 7 7	Bill Coun	Bill Count Water Revenues	Se			
	Number of	Average	Tact Vagr	Adiustment	Adjusted T V Bodgs	Comp	Company - As Filed			Company - Rebuttal	
Detail Class of Service	Customers	Consumption	Rates	(18-7)	[C + D]	Rates	Increase [F - E]	%	Proposed Rates	Increase [I - E]	%
Residential 5/8 x 3/4 -inch	5,775		\$ 2,125,490		\$ 2,130,866 \$	2,646,896	\$ 516,029	24.22%	\$ 2.630.817 \$	499,950	23 46%
Residential 1-Inch Residential 1 5 inch	91	14,440	80,025	199	80,223	97,820	17,597	21.93%	97,330	17,106	21.32%
Residential 2-inch	,	1007	. 4	1 1	. ;	•		%00:0	•		0.00%
Residential 3-inch	•	410,001	39,135	152	59,288	65,362	6,074	10.25%	64,727	5,439	9.17%
Residential 4-inch		•	1	•	•	•		%00.0	•	•	0.00%
Residential 6-inch	•		•	•			•	%00.0			0.00%
Residential 8-inch	•		,	ı			,	0.00%	•		0.00%
Residential 10 inch	•	•				•		0.00%	•	,	0.00%
Commercial E/8 × 2/4 inch	. 6	' '	. ;	•		,	•	0.00%	4		%00.0
Commercial 3/6 x 3/4 -incl	6/7	4,942	109,891	806	110,799	137,120	26,321	23.76%	136,046	25,247	22.79%
Official Linch	88	17,688	696'66	611	100,580	122,098	21,517	21.39%	121,129	20,549	20.43%
Commercial 1.5-lifer	, ;	. ;		ı	•	•	•	0.00%	r	•	0.00%
Confinencial Z-Inch	85	97,862	497,113	3,396	500,509	574,813	74,304	14.85%	568,730	68,221	13.63%
Commercial 3-inch	/	224,956	54,612	(112)	54,500	70,847	16,347	29.99%	70,570	16,070	29.49%
Commercial 4-inch	ဖ	334,708	96,335	445	96,780	114,255	17,475	18.06%	113,309	16,530	17.08%
Commercial 6-inch				,	r	•	•	0.00%	•		0.00%
Commercial 8-inch	•		,		•	,	•	0.00%		,	0.00%
Commercial 10-inch			•	ı	•	,	1	0.00%			00.00
Industrial 5/8 x 3/4 -inch	,	•	1		•	1	•	0.00%	•		0.00%
Industrial 1-inch	Ψ-	3,208	961		961	1,091	130	13.58%	1,091	130	13.58%
Industrial 1.5-inch	•	•	ı		1	,	•	0.00%			0.00%
Industrial 2-inch	_	•	2,381		2,381	2,784	403	16.92%	2,784	403	16.92%
industrial 3-inch	•					i	•	%00.0		•	0.00%
Industrial Atmost	•				•	•	•	%00'0	•	,	0.00%
Industrial 8-inch		•				•	Ī	0.00%	•	•	0.00%
Industrial 10-inch		•	,		,	•	•	0.00%			0.00%
Private Fire Serivoe	α α		16 647			, 0,		0.00%	, ,	' (0.00%
Other Water Revenues	3	•	to o		10,047	(3,893	3,240	8,00%	19,893	3,246	19.50%
Public Fire Hydrant	1	,			•	,	•	%UU U	•		%000
Coin Machine	•							%00.0 %00.0			%00.0 00.0
Construction Water 2-Inch	•	•			1	1		%00.0 %00.0			%00.0 00.0
Construction Water 3-Inch	c)	193,075	65.417		65.417	72 220	6,803	10.40%	71 359	5 043	9.00.0
Construction Water 4-Inch	-	782,000	41672		41,672	42 702	1,030	2 47%	42.035	2,943	0.00%
Sales for Resale 5/8 x 3/4-Inch			1		10'-	75,105	2	0.00%	42,033	9	8,70,0
Sales for Resale 1-Inch	•	,	,		•			0.00%		•	0.00
Sales for Resale 1.5-Inch		,			•			%00.0			%00.0 0.00
Sales for Resale 2-Inch		•			•	•		%00.0			%00.0 0
Sales for Resale 3-Inch	•	,	•		•			%00.0			%00.0
Sales for Resale 4-inch	•	•	,		,			%00.0			%00.0
Sales for Resale 6-inch	1	•	1			,		%00.0		ı	%00.0
Sales for Resale 8-Inch	•	٠	,		•	1		%00.0	1		%00.0
Sales for Resale 10-Inch	•	•	1		•	•	i	0.00%	•	•	0.00%
- 			-					,			
otals	6,404	8,672 \$	3,249,647	10,976 \$	3,260,624 \$	3,967,901	\$ 707,278	21.69%	\$ 3,939,820 \$	679,197	20.83%

ARIZONA WATER COMPANY Test Year Ended December 31, 2010 Summary Analysis of Revenue by Class

Ave	Num Summary Class of Service Cust	Total Residential Total Commercial Total Industrial Total Private Fire Total Other Water Revenues	Totals	Miscellaneous Revenues Total Revenue Generated	Target Rev. Rqmt. (Sch. C-1) Difference	Less: Consolidated Revenue Adj. Over/(Short) %
Average	• - ol	5,873 466 2 2 58 6	6,404	•		
I	Average Consumption	6,661 31,939 1,604 	8,672	,		
	Test Year <u>Rates</u>	\$ 2,264,650 857,920 3,342 16,647 107,088	\$ 3,249,647	42,877		
Cust. Growth	Adjustment (IS-7)	\$ 5,727 5,249	\$ 10,976	1		
Adjusted	T.Y. Rates [C + D]	\$ 2,270,377 \$ 863,168 3,342 16,647 107,088	\$ 3,260,624	42,877	ها	l
Bill Count W	Proposed Rates	\$ 2,810,078 1,019,133 3,875 19,893 114,922	\$ 3,967,901	68,735 \$ 4,036,636	4,036,636	0.00%
Bill Count Water Revenues Company - As Filed	Increase [F - E]	\$ 539,700 155,965 533 3,246 7,833	\$ 707,278	25,858		
s	%	23.77% 18.07% 15.96% 19.50% 7.31%	21.69% \$	60.31%	la	Γ-
-	Proposed Rates	\$ 2,792,873 \$ 1,009,785 3,875 19,893 113,394	\$ 3,939,820 \$	68,735 \$ 4,008,555	4,008,556	' °°
Company - Rebuttal	Increase II - EI	522,495 146,616 533 3,246 6,306	679,197	25,858		
Ξ	%1	23.01% 16.99% 15.96% 19.50% 5.89%	20.83%	60.31%		

Average	ω.	Test Year A Rates 757,010 \$ 10,843 10,843 24,104 19,965 44,009 5,721 11,327 56,176	Adjustment (1S-7) (3,908) \$ (58)	Adjusted T.Y. Rates [C+D] 753,103 \$	Bill Count W Company Proposed Rates	衞기구	Se		Company - Rebuttal	
ich 1,397 Oustomers Consu 6	6	43 \$ \$ 27 75	♦ 6 6	8 9	Compar Proposed Rates	•		- 1	ompany - Rebuttal	
Customers Consults 1,397 6 7 14 14 14 16 17 18 18 19 19 10 10 10 10 10 10 10 10	θ	43 \$ 04 43 \$ 52 72 75	\$ (8) (8)	8 9	Rates	Increase				
7.08. 6	*	757,010 \$ 10,843				F-E	%	Proposed <u>Rates</u>	Increase	%
ρ ο '''' '44 '8 ω''''	4,753 	10,843 	(89)	1000	1.061.561	308 459	40 9E%	000	0.70	1
pn 4 4 4 8 4 4 6 6 7 7 8 9 7 7 8 9 7 7 8 9 7 7 7 8 9 7 7 8 9 9 9 9	6,444 7,335 9,192 9,192 9,839	24,104 19,965 44,009 5,721 11,327 56,176		10,/85	15,287		41.74%	14.407	3,622	32.32%
fan fan fan fan fan fan fan fan fan fan	5.464 6.464 7.335 9.192 9.192 9.839	24,104 19,965 44,009 5,721 11,327 56,176		•	•		0.00%		10.	00.00
hon 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	6,464 6,464 6,646 9,192 1,167 2,839	24,104 19,965 44,009 5,721 11,327 56,176		•	•	ı	%00'0	ı	•	00.0
nch 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	6,464 7,335 6,646 6,646 1,167 2,839	24,104 19,965 44,009 5,721 11,327 56,176		t	,	1	%00.0	•	•	0.00%
hon 4 4 4 4 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	- 6,464 7,335 5,646 9,192 0,167 2,839	24,104 19,965 44,009 5,721 11,327 56,176		•		•	%00.0	•	•	0.00%
hon 4 4 4 4 8 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1	- 6,464 7,335 5,646 9,192 0,167 2,839	24,104 19,965 44,009 5,721 11,327 56,176		•		•	0.00%	•	•	0.00%
44 4 8 6 6 7 7 8 7 7 7 7 7 7 7 7 7 7 7 7 7 7	6,464 7,335 5,646 9,192 0,167	24,104 19,965 44,009 5,721 11,327 56,176	,			1	%00.0	•	•	%00.0
14 8w	7,335 5,646 9,192 2,839	24,104 19,965 - 44,009 5,721 11,327 56,176	- (, ,	,	ı	0.00%		•	%00.0 0.00%
, , , , , , , , , , , , , , , , , , ,	5,646 9,192 1,167 2,839	19,300 44,009 5,721 11,327 56,176	(268)	23,836	34,065	10,229	42.91%	37,685	13,849	58.10
ωω 	5,646 9,192 0,167 2,839	44,009 5,721 11,327 56,176	(222)	19,743	28,699	8,956	45.36%	31,517	11,773	59.63%
, , , , , , , , , , , , , , , , , , ,	9,192 0,167 2,839	5,721 11,327 56,176	. (407)		- 1	• ;	%00.0	•		0.00%
·	0,167 2,839	5,72. 11,327 56,176	(401)	43,522	65,551	22,029	50.62%	70,062	26,541	60.98%
	839	56,176	(0/)	5,653	7,115	1,462	25.85%	8,697	3,044	53.84
	9	2 '	(56)	11,194	15,253	4,060	36.27%	17,523	6,329	56.54
mercial 10-inch			(099)	55,516	71,296	15,780	28.42%	85,902	30,387	54.74%
strial 5/8 x 3/4 -inch Istrial 1-inch Istrial 1.5-inch						,	0.00%	ı	•	0.00%
strial 1-inch strial 1.5-inch strial 2-is-ch	,	•			ı	•	%00.0	٠	•	0.00
strial 1.5-inch		•			1	•	%00.0	1		0.00
strial 2-inch				•	1	•	%00.0	•	,	0.00%
3. Idi 2-IIICI		ı		,	•	•	0.00%	•		0.00%
Industrial 3-inch		ļ			•	,	0.00%		•	0.00%
Industrial 4-inch		•			1	•	%00.0		•	0.00%
Industrial 6-inch						,	%00.0	•	1	0.00%
Industrial 8-inch		•		r			0.00%	•	•	0.00%
Industrial 10-inch				•	1	,	%00.0	,	,	0.00%
Private Fire Serivce	ı	, ,			•	ı	%00.0	r	•	0.00%
Other Water Revenues		/97		287	324	37	12.92%	324	37	12.92%
Public Fire Hydrant										
Coin Machine		•			•		%00.0	•	•	0.00%
Construction Water 2-Inch				•	,		%00.0	,		0.00%
		, 0			•		0.00%	•		0.00%
_	140,04	8,539		8,639	11,225	2,585	29.93%	13,442	4,803	55.60%
Sales for Resale 5/8 x 3/4-inch		,		1	1	•	%00.0			0.00
Sales for Resale 1-Inch		ı		,	•		%00.0	•	1	0.00%
Sales for Resale 15-Inch		•					0.00%	•	•	0.00%
Sales for Resale 2-Inch		,			ı	•	%00.0	,	,	0.00%
Sales for Resale 3-inch		•			1		0.00%	ı	,	0.00%
Sales for Resale 4-Inch		r		•	1	,	0.00%	,	,	0000
Sales for Resale 5-loch		1		,	,		0.00%	٠	•	%00.0
Sales for Resale 8-Inch				,	•	•	%00.0	1		00.0
Sales for Resale 10-Inch		,			,		0.00%			0.00%
	•	r		•		•	0.00%			0.00%
Totals 1476 8	6	- 1	9 (000)							
0/1	8,073	938,081 \$	(5,803) \$	932,277 \$	1,310,376	\$ 378,099	40.56% \$	1,276,102 \$	343,824	36.88%
					:		l			

ARIZONA WATER COMPANY Test Year Ended December 31, 2010 Summary Analysis of Revenue by Class

| Average Cust Growth Adjustment T.Y. Rates Proposed Increase Company - Rebuttal Company - Rebuttal Increase Company - Rebuttal Increase Company - Rebuttal Increase Company - Rebuttal Increase ---|
| Number of Number of Number of Last Year Post Number of Number of Number of Adjustment TY Rates Company - As Filed Company - Rebuttal Customers Consumption Rates Adjustment TY Rates Proposed Increase Proposed Increase 1,403 7,214 \$ 767.853 \$ (3.965) \$ 763,888 \$ 1,076,848 \$ 312,961 \$ 0.97% \$ 1,010,949 \$ 247,062 71 24,382 161,301 (1,838) 159,464 221,979 62,516 39.20% 251,386 91,922 1 287 287 287 324 37 12,92% 251,386 91,922 1 48,341 8,639 8,639 11,225 2,585 29,93% 13,442 4,803 1,476 8,073 938,081 (5,803) 932,277 1,310,376 \$ 376,989 \$ 1,276,102 \$ 343,824 |
| 1,403 7,214 \$ 767,853 \$ (3.985) \$ 763,888 \$ 1,076,848 \$ 312,961 40.97% \$ 1,010,949 \$ 247,062 71 24,382 161,301 (1.838) 159,464 221,979 62,516 39,20% 251,386 91,922 |
| 71 24,382 161,301 (1,838) 159,464 221,979 62,516 39,20% 251,386 91,922 1 287 287 324 37 12,92% 251,386 91,922 1 48,341 8,639 8,639 11,225 2,585 29,93% 13,442 4,803 1,476 8,073 \$ 938,081 \$ (5,803) \$ 932,277 \$ 1,310,376 \$ 378,099 40,56% \$ 1,276,102 \$ 343,824 |
| Henues 1 48,341 8,639 - 287 324 37 12,92% 324 37 12,92% 324 37 12,92% 324 37 12,92% 13,442 4,803 14,76 8,073 \$ 938,081 \$ (5,803) \$ 932,277 \$ 1,310,376 \$ 378,099 40,56% \$ 1,276,102 \$ 343,824 |
| 1,476 8,073 \$ 938,081 \$ (5,803) \$ 932,277 \$ 1,310,376 \$ 378,099 40,56% \$ 1,276,102 \$ 343,824 |
| 42,624 \$ 1,270, UZ \$ 345,624 |
| |
| Total Revenue Generated 15,328 24,610 9,282 60.56% 24,610 9,282 60.56% 50.56% 1,330,712 60.56% |
| 1,319,969 |
| ₩ |
| Less: Consolidated Revenue Adj. Over/(Short) \$ 0 SaddleBrooke) \$ 0 SaddleBrooke) % |
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Average Number of Average Test Year Adjust Outstomers Consumption Rates (IS) 1,367 5,140 \$ 728,522 \$ (IS) 1,367 5,140 \$ 728,522 \$ (IS) 0 221,080 7,286 7 4,471 39,710 7 4,471 39,710 7 93,190 55,134 1 563,483 48,774 ch	Cust. Growth Adjusted Adjustment T.Y. Rates (S-7) [C+D] (C+D] (364) 69,173 (40) 7,245 (1,278) 38,432 (1,278) 38,432 (1,569) 17,354 (1,560) 47,214	### Bill Count W Company Proposed Rates	Bill Count Water Revenues Company - As Filed sed Increase 18.750 \$ 105,129 1 77,524 8,352 1 8,215 969 1 7,624 2,710 1 11,308 7,868 1 11,308 7,868 1 14,435 6,003 1 14,435 1 14,511 7,297 1	\$ 14.51% \$ 12.07% \$ 0.00% \$ 0.	Company - Rebuttal Proposed Increase Rates II - E	-Rebuttal aase E 51,270 3,331 - 12,598 6,865 6,865 - 11,080
Outstanding Average Test Year Adjust Consumption Rates (Sustance) Test Year Adjust (Sustance) Test Ye	₩	S R29,750 \$ Rates \$ R29,750 \$ 77,524 8,215 20,064 61,308 61,308		26 14.51% \$ 14.51% \$ 12.07% \$ 0.00% \$	Company Increment 11 11 11 11 11 11 11	Rebuttal 1,270 3,331 2,598 5,49 5,865 1,080
Total Times Consumption Rates (ISS) 14.367	<u>•</u>	55 24 34 35 11	increase [F.E] 105,129 8,352 8,352	% \$ 14.51% \$ 10.00% \$ 0.00% \$	11 10 2 8 8 8 8 8 11 11 11 11 11 11 11 11 11 11	se 1.270 3,331 2,598 1,080 1,080
Indh 1,387 5,140 \$ 728,522 \$ 51 11,188 69,537 \$ 0 221,080 7,286	и		105,129 8,352 969 969 - 6,003 2,710 7,868	\$ 12.07% 0.00%	€9	7,270 3,331 5,49 5,49 5,865 1,080 1,080
Inch 74 4,471 39,710 7,286 7,286 7,286 7,286 7,286 7,286 7,286 7,286 7,286 7,286 7,286 7,286 7,286 7,286 7,286 7,286 7,286 7,286 7,287 4,471 39,710 17,953 7,10 17		8,215 8,215 1,4435 20,064 61,308 54,511	•	12.07% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00%		3,331 5,49 7,598 1,080 1,080
Inch 74 4,471 39,710 7,286 7,286 7,286 7,286 7,286 7,286 7,013 17,953		8,215 	·	0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00%		549 2,598 1,080 1,080
Inch 74 4,471 39,710 17 4,471 39,710 17 93,190 55,134 7 93,190 55,134 1 563,483 48,774 1 563,483 48,774 1 563,483 48,774 1 563,483 48,774 1 583,190 55,134		44,435 20,064 61,308 54,511	•	0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00%		2,598 5,865 6
inch 74 4,471 39,710 17,953 17		44,435 20,064 61,308 - 54,511		0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00%		2,598 5,865 6,865 1,080 1,080
Inch 74 4,771 39,710 17,953 17,013 17,953 17,013 17,953 17,013 17,953 17,013 17,953 17,013 17,953 17,013 17,953 17,013 17		44,435 20,064 20,064 61,308 - 54,511		0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00%		5,598 1,080 1,080
inch 74 4,471 39,710 17,953 17,013 17,953 17,013 17,953 17,013 17,953 17,013 17,953 17,013 17,953 17,013 17,953 17,013 17,953 17,013 17,953 17,013 17,953 17,013 17,953 17,013 17,953 17,013 17		44,435 20,064 20,064 61,308 - 54,511		0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00%		2,598 5,865 1,080 1
Inch 74 4,471 39,710 77 93,190 55,134 7 93,190 55,134 7 93,190 55,134 7 93,190 55,134 7 93,190 55,134 7 1 563,483 48,774 7 1 563,483 48,774 7 1 563,483 18,774 7 1 563,483 18,774 7 1 583,483 18,774 7 1 7 2 83 7 1 7 2 83 7 1 7 2 83 7 1 7 2 83 7 1 7 2 83 7 1 19,841 7 1 19,841 7 1 10ch 1 10ch		44,435 20,064 61,308 54,511		0.00% 15.62% 15.62% 16.62% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00%		2,598 5,865 11,080 - - 5,527
74 4471 39,710 17 7,013 17,953 - 7 93,190 55,134		44,435 20,064 61,308 54,511		15.62% 15.62% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00%		2,598 6,865 1,080 1,527
7 93,190 55,134 7 93,190 55,134 1 563,483 48,774		20,064 - 61,308 -		15.62% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00%		1,080
2-Inch 2 74,921 19,841 4-Inch 2 74,921 19,841 1-Inch 1-Inc		61,308		0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00%		0,527
2-Inch 2 74,921 55,134		54,511		14.72% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00%		080'1'
1 563,483 48,774 1 563,483 48,774		1.184.		0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00%		2,527
2-Inch 2 74,921 19,841 1-Inch		54,511		0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00%		527
2-Inch 2 74,921 19,841 4-Inch 2 74,921 19,841 1-Inch 1-ch 1-ch 1-ch 1-ch 1-ch 1-ch 1-ch 1-		24,511 		5.46% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00%		527
2-Inch 2 74,921 19,841 1-Inch				%00.0 %00.0 %00.0 %00.0 %00.0		
2-Inch 2 74,921 19,841				0.00% 0.00% 0.00% 0.00% 0.00%		
2-Inch				0.00% 0.00% 0.00% 0.00%		
2-Inch				0.00% 0.00% 0.00%		1 1 1 1
2-Inch				0.00% 0.00% 0.00%		1 1 1
2-inch				0.00% 0.00%		1 1
2-Inch				%00.0		
2-Inch						
2-Inch	•			%00.0		•
2-Inch		•		%00.0		1
2-Inch		ı		%00.0		1
2-Inch 2 74,921 4-Inch 2 74,921 x 3/4-Inch		. ;		%00.0		,
2-Inch 2 74,921 4-Inch 2 74,921 × 3/4-Inch	283	324		4.36%		41
ch 2 74,921 ch 2 74,921 ch				,		
ch 2 74,921 ch 2 74,921 ch	•	• 1		%00%		,
ch 2 74,921 ch - 1 //4-inch	•			0.00%		ı
ch	19.841	23 223		7.05%		
//4-Inch	'	27.07		%00.0		200,
	,	ı		%00.0		. ,
Sales for Resale 1.5-Inch Sales for Resale 3-Inch Sales for Resale 3-Inch	,	•		%00.0		
Sales for Resale 3-Inch Sales for Resale 3-Inch	•			%00.0		
Sales for Resale 3-inch	1	•		%00.0		
	,			%00.0		. ,
Sales for Resale 4-inch	•	•		0.00%	,	,
Sales for Resale 6-Inch	•	,		%00.0		
Sales for Resale 8-Inch	•			%00.0		,
Sales for Resale 10-Inch		1	,	%00.0		
0001000						
1,521 6,242 \$ 987,039 \$	(9,438) \$ 977,602	\$ 1,119,354 \$	141,752	14.50% \$	1,080,666 \$ 103,	103,064

Detail Class of Service Residential 5/8 x 3/4 -inch Residential 1-inch Residential 2-inch Residential 2-inch Residential 3-inch											
- ਓ	Ανοιον	-				Bill Coun	Bill Count Water Revenues	Se			
Handa	Average Number of	Average	Test Vear	Cust. Growth	Adjusted	Comp	Company - As Filed			Company - Rebuttal	
Residential 5/8 x 3/4 -inch Residential 1-inch Residential 1-inch Residential 2-inch Residential 2-inch	Customers	Consumption		(1S-7)	[C + D]	Proposed Rates	Increase [F - E]	%	Proposed Rates	Increase	%
Residential 1-inch Residential 1.5-inch Residential 2-inch Residential 2-inch	25	3,405 \$		6.478 \$	26.258 \$	37.218		74 7407	6	0	300
Residential 2-inch	19	5,927	14,215	4,655	18,870	28,500	9,631	51.04%	26.462	7.593	51.95% 40.24%
Special Start		•		1		1		0.00%		;	%00.0
		•	•		•			%00.0	•		0.00%
Residential A-inch	•	•		•	,	•		%00.0	•	•	0.00%
Residential 6-inch		•			•	•		0.00%	•	•	%00.0
Residential 8-inch	,			•		1		0.00%	•	•	%00.0
Residential 10 inch			•	•	•	1		0.00%	,	,	%00.0
Commencial 6/8 v 2/4 inch	,	. :	•	•	•	•		%00.0	•	,	%00'0
Commercial 3/6 X 3/4 -inch	4	11,493	2,858	332	3,190	5,046		58.20%	5.322	2 132	66.82%
	-	347	584	89	652	866		53.12%	1,375	723	110.97%
Sommercial Lo-Inch						•		0.00%		·	%UO U
	ω·	167,037	47,091	5,476	52,567	91,250	38,684	73.59%	92.232	39.665	75 46%
Commercial 3-inch	-	96,375	4,361	507	4,868	8,490		74.40%	9.528	4 660	95 72%
	•	,	•	•		•		0.00%		}	%000
Commercial 6 inch		,	•	•	,			%00'0	•	ſ	%UU U
Commercial 8-inch	1	•	•	,	•	•		%00.0	•		8000
Commercial 10-inch	•	,	,	•	•			%00.0		•	200.0
Industrial 5/8 x 3/4 -inch	1	•			,			%00.0		r	8000
Industrial 1-inch	•		ı		•	•		%00.0	•	•	8000
Industrial 1.5-inch	•	•	•		•	,		%00.0 00.0		•	8000
Industrial 2-inch	1		ı		,			%00.0		•	800.0
Industrial 3-inch	•	•	,			,	,	%00.0			800.0
Industrial 4-inch	•	•	•		1	,		%00.0			800.0
Industrial 6-inch	,	•	,			•		%00.0	•	. ,	0.00
Industrial 8-inch	ı	•	•			•		%00.0		• !	0.00
Industrial 10-inch	,		ď			•		%00.0	, ,	•	8000
Private Fire Serivce	-		85		85	450		40.00%	160	, , ,	0.00%
Other Water Revenues			3		3	t D		440.00%	90 4	3/4	440.00%
Public Fire Hydrant					,	,	,	%000			800
Coin Machine	•		,				, 1	%00.0		1	0.00%
Construction Water 2-Inch	,	1	•		,	,	. 1	200.0	•	•	8,00.0
Construction Water 3-Inch	0	697,700	9.032		9 032	15 970	8 030	76.93%	2000	, (80.0
Construction Water 4-Inch	1		- ·		700,0	0,0,0	0000	0.000	9/9'01	0,644	73.55%
Sales for Resale 5/8 x 3/4-Inch	,		ļ		•	•		0.00%	•	•	0.00%
Sales for Resale 1-Inch	,		,			•		0.00%	•		0.00%
Sales for Resale 1.5-Inch	í	•				,		0.00%	1	,	0.00%
Sales for Resale 2-Inch	•		•				•	0.00%			0.00%
Sales for Resale 3-Inch	,	,	' '		4 1			0.00% 0.00%			0.00%
Sales for Resale 4-Inch	,	,	1		. ,	•	•	%00.0	·		0.00%
Sales for Resale 6-Inch	1		1			•	1	8000	•	ı	0.00%
Sales for Resale 8-Inch	1		,			•	•	%00.0	•	•	0.00%
Sales for Resale 10-Inch	•	,			. 1		• •	0.00%	•		0.00%
										,	0.00
Totals	88	16,110 \$	\$ 500'86	17,516 \$	115,521 \$	187,932	\$ 72,411	62.68%	\$ 185,694 \$	70,173	60.75%

			<u>.</u>	<u>.</u>	豇	Ξ	<u>(5)</u>	Ī	Ξ	2	[<u>Y</u>]
	Average	1		Cust. Growth	Adjusted	Bill Cour Comp	Bill Count Water Revenues Company - As Filed	Ş	Cor	Company - Rebuttal	
Summary Class of Service	Number of Customers	Average Consumption	Test Year <u>Rates</u>	Adjustment (IS-7)	T.Y. Rates [C+D]	Proposed Rates	Increase [F - E]	%	Proposed Rates	Increase [I - E]	%
Total Residential Total Commercial Total Industrial Total Private Fire	76 11 ⁻ 1		\$ 33,994 54,894 - 85	\$ 11,133 6,383	\$ 45,127 \$ 61,277 - 85	65,719 105,785 - 459		45.63% 72.63% 0.00% 440.00%	\$ 61,103 \$ 108,456 \$ 459	- 4	35.40% 76.99% 0.00% 440.00%
Total Other Water Revenues	0	697,700	9,032	İ	9,032	15,970	826'9	76.82%	15,676	6,644	73.56%
Totals	88	16,110	\$ 98,005	\$ 17,516	\$ 115,521 \$	187,932	\$ 72,411	62.68%	\$ 185,694 \$	70,173	60.75%
Miscellaneous Revenues Total Revenue Generated		1	1,582		1,582	2,884	1,302	82.31%	2,884 \$ 188,578	1,302	82.31%
Target Rev. Rqmt. (Sch. C-1) Difference					₩	227,687		,	244,673 \$ (56,095)		
Less: Consolidated Revenue Adj. Over(Short) %					₩		(36,871) (San Manuel/Oracle/ 0 SaddleBrooke) 0.00%	·	s) (360.055) %00.0 %00.0 \$	(56,095) (San Manuel/Oracle/0 SaddleBrooke) 0.00%	

Marche of Author of Auth	Average Number Customs	Average Consumption 9,398 43,175		Cust. Growth	responder v	Bill Count	Vater Revenue		Ξ	<u> </u>	₹
Number of constraining Number of constrain	Averag Number Custome	Average Consumption 9,398 43,175		Cust. Growth	Adiiotod	Bill Count	Water Revenue	S			
Marked of Average Teal Year Adjustment Try Rease Trimings CA-LOT From the Proposed Trimings CA-L	Customa	Average Consumption 9.398 43,175			שכוכמוטכ	Compar	Palind Vr		Smoo	Dobuttol	
134 9,398 5 174 5 142		9,398 43,175		Adjustment	l	Proposed	Increase			increase	
14		9,338 43,175			2	- Valles	1	গ	Kates	- E	%
1				636) 4 (40)	3.083	65,992	\$ 14,834	29.00%	\$ 66,478 \$	15,320	29.95%
1			,		200)	600 -	0.00%	5,004	17)	23.39%
1 14,823 4,885 (182) 4,885 (182) 6,086 1,444 200% 0.00%			•	1	•		•	0000			%00.0 0.00
14 7,006 4,885 (192) 4,583 6,006 1,404 20.00% 1,445		,	1	•			•	0.00%		•	%00.0 %00.0
1			•		,	,	,	0.00%	i	,	%00.0 %00.0
14		r	•	1				0.00%	•	•	%00.0
14 7,006 4,885 (192) 4,683 6,006 1,404 23,43 31,15% 6,138 1,445 1		•	•	•	,	u		%00.0		•	0.00%
1	·			•	,	•	٠	0.00%	,	,	8000
2 280,482	•		4,885	(192)	4,693	960'9	1,404	29.91%	6.138	1 445	30.80%
2 34.829 4,360 (183) 4,177 5,406 1,229 29,42% 5,422 1,265 2 377,375 25,899 (1,062) 24,637 32,811 8,174 33,18% 31,109 8,471 1 280,442 9,208 (375) 8,833 11,853 3031 34,11% 31,107 3,144 0.00% 31,108 8,471 8,471 8,471 8,471 8,772 8,833 11,863 3,109 8,471 9,000% 31,108 3,109 3,1	1	14,883	783	(32)	751	985	234	31.16%	991	240	31.95%
2 2012 34.319 (185) 4.177 5.406 1.225 24.245 1.225 1.2			•	•	4	ı	•	0.00%			0.00%
The state of the s	mileicial S-mod		4,360	(183)	4,177	5,406	1,229	29.42%	5,432	1,255	30.04%
2 377,375 25,699 (1,002) 24,637 32,811 8,174 33169 8,471 0.000% 1 0.000% 1 0.000% 1 0.000% 1 0.000% 2 left 4 mon 1 0.000% 1 0.0			9,208	(375)	8,833	11,863	3,031	34.31%	11,977	3,144	35.60%
The second state of the se			25,699	(1,062)	24,637	32,811	8,174	33.18%	33,108	8,471	34.38%
2-Inch		•	į	,	•	•	1	0.00%	. •	. •	0.00%
2-Inch 4 69 062 3 088 3 897 808 26 15% 3 93	mercial o-mon		٠			•		0.00%	•	,	0.00%
Funch	40	•			•	·		0.00%	•		0.00%
2-lock 2-lock 2-lock 3-lock 3-lock 3-lock 3-lock 3-lock 3-lock 3-lock 3-lock 3-lock 4-		•				•	,	0.00%	•	•	0.00%
### 1 69/092 3/089 3/857 6/20/6% 3/82 3/83 ###################################	ustrial 1 5-inch	•			•	•	٠	0.00%	•	ı	0.00%
S-Inch	ustrial 2-inch	- 60.007	000			1 0	, ,	%00.0	, ;	•	0.00%
2-Inch	ustrial 3-inch	760'60	800's		680'5	3,897	808	26.15%	3,482	393	12.73%
2-Inch 4-	ustrial 4-inch	•	. ,		•	•		%00.0		•	0.00%
2-Inch 4-Inch 4-Inch 6-000% 4-Inch 6-000% 4-Inch 6-000% 6-	ustrial 6-inch	1	•			. ,		%00.0	•		%00.0
2-Inch 3-Inch 4-Inch Inch Inch Inch Inch Inch Inch Inch	ustrial 8-inch	•				٠ ،	, ,	8000		•	0.00%
2-Inch 3-Inch 4-Inch 4-Inch 6.00% 4-Inch 6.0	ustrial 10-inch				1			% 00.0			0.00%
2-inch 3-decode 3-decode 4-decode 5-decode 6-decode 7-34-inch 7-34	rate Fire Serivce	•			•			2000			800.0
Inch 157 16,793 \$ 102,942 \$ (2,521) \$ 100,421 \$ 30,398 30.27% \$ 131,410 \$ 30,989	er Water Revenues				ı		•	0.00	1	•	0.00%
Inch 157 16,793 \$ 102,942 \$ (2,521) \$ 100,421 \$ 130,819 \$ 30,278 \$ 131,410 \$ 30,989	oublic Fire Hydrant	•	,		•		,	%000			%000
Inch 167 167 167 167 167 167 167 16	Soin Machine	ı	1		•	ı	•	%00.0	•	•	%00.0
Inch 1 16,783 \$ 102,942 \$ (2,521) \$ 100,421 \$ 30,398	Construction Water 2-Inch	•	•			1		%00.0	1	,	0.00%
Inch	Construction Water 3-Inch	•			•	•	•	%00.0	•	•	%00.0
157 16,793 \$ 102,942 \$ (2,521) \$ 100,421 \$ 30,398	Constituction Water 4-inch				,			%00.0	•	1	0.00%
0.00%	Sales for Resale 3/8 X 3/4-inch	•	•		1		•	%00.0	•	•	0.00%
0.00%	Sales for Resale 1-inch	•	,		•	•	,	0.00%	,	1	0.00%
167 16793 \$ 102,942 \$ (2,521) \$ 100,421 \$ 130,819 \$ 30,398	Sales for Resale 1.3-Inch	•			ů)	,	,	%00.0	,	•	0.00%
157 16,793 \$ 102,942 \$ (2,521) \$ 100,421 \$ 130,819 \$ 30,398	Sales for Decale 2-inch		•		•	,	•	0.00%	1	•	0.00%
157 16,793 \$ 102,942 \$ (2,521) \$ 100,421 \$ 130,819 \$ 30,398	Sales for Resale Julion	•	•			1		0.00%			0.00%
157 16,793 \$ 102,942 \$ (2,521) \$ 100,421 \$ 130,819 \$ 30,396 30,27% \$ 131,410 \$ 30,989	Sales for Resale 6-loch	•	,			•	ı	%00.0	ı	1	0.00%
157 16,793 \$ 102,942 \$ (2,521) \$ 100,421 \$ 130,819 \$ 30,398 30,27% \$ 131,410 \$ 30,989	sales for Resale 8-Inch	• •			•	•	1	%00.0	,	,	0.00%
157 16,793 \$ 102,942 \$ (2,521) \$ 100,421 \$ 130,819 \$ 30,398 30,27% \$ 131,410 \$ 30,989	sales for Resale 10-inch					1	1	0.00%	1		0.00%
157 16,793 \$ 102,942 \$ (2,521) \$ 100,421 \$ 130,819 \$ 30,396 30,27% \$ 131,410 \$ 30,989					,		•	0.00%	•		0.00%
		93		1 11	100,421			1 11	131,410	30,989	30.86%

ARIZONA WATER COMPANY	Test Year Ended December 31, 2010	Summary Analysis of Revenue by Class
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Present Proposed Present Present Present Present Present Proposed Present Proposed Present Proposed Present Proposed Present Proposed Present Proposed Present Proposed Present Pres	The Charles Best bound (M Cali) Prepared			E .	Σ		<u> </u>	<u>.</u>	Į.	Ē		<u>ত</u>		Ĩ	Ξ
The One Brankover (M Gai)	The Tree Designation (N Gai) 1.0	Class of Service	Kare bi		Proposed -	"	- 1	asic Serv Prop	ice Charge		1	Present	olumetric (Charge (/M (Sal)
The One Brandover (M Gail)	Third Deficience (M Gal)	Occidential Fig.		Present	Rebuttal		Rate	Rate - F	Reputtal	Change		Rate		Rebuttal	Change
Terr One Breakover (M Gal): 10 9,999 9,999 1 15.00	Tier One Beackover (M Gai): 99,999 99	residential 5/8 x 3/4 -inch	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	3 10 99,999	3 10 99,999	9	17.52	⇔						2.8983 3.6229 4.5286	\$ 0.6163
Ther One Breakover (M Gai):	The One Breakover (M Gal):	Residential 1-inch	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	10 99,999 99,999	40 99,999 99,999	↔	43.80	₩						3.6229	0.7702
Tier Two Breaktover (M Gai): 9999 9999 99399 140:14 \$ 140:14 \$ 184.00 \$ 43.86 \$ 2.8527 \$ 3.5653 Tier Two Breaktover (M Gai): 99999 99399 99399	Ter One Breakover (M Gal): 125 125 126 140 14 \$ 184 00 \$ 43 86 5 2 8677 3 32029 1467 M Gal): 117 Three Breakover (M Gal): 99,999 99,999 17 Three Breakover (M Gal): 99,999 99,999 17 Three Breakover (M Gal): 99,999 99,999 18 72 80 75 0 8 7771 \$ 2,0000 7 30	Residential 1.5-inch	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	n/a n/a n/a	75 99,999 99,999		n/a	€	115.00	n/a	_			3.6229 4.5286 4.5286	0.9623 n/a n/a
Tier One Breakover (M Gal): 300 300 \$ 280.29 \$ 368.00 \$ 87.71 \$ 2.8527 \$ 3.5630	Ther One Breakover (M Gai): 300 300 \$ 280.29 \$ 368.00 \$ 87771 \$ 2,8227 3 3229 39999999999999999999999999999	Residential 2-inch	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	125 99,999 99,999	125 99,999 99,999	₩	140.14					33.52		3.6229 4.5286 4.5286	0.7702
Ter One Breakover (M Gal): 500 500 5 437.95 \$ 575.00 \$ 137.05 \$ 2.8527 \$ 3.5663 Ter Two Breakover (M Gal): 99,999 99,999 39,999 31,150.00 \$ 274.10 \$ 2.8527 \$ 3.5663 Ter Two Breakover (M Gal): 1,000 1,000 1,500 \$ 1,150.00 \$ 274.10 \$ 2.8527 \$ 3.5663 Ter Two Breakover (M Gal): 99,999 99,999 99,999 39,999 1,000 1,500 \$ 2,014.58 \$ 1,840.00 \$ 438.55 \$ 2.8527 \$ 3.5663 Ter Two Breakover (M Gal): 99,999 99,999 99,999 1,000 \$ 2,014.58 \$ 2,645.00 \$ 630.42 \$ 3.5663 Ter Two Breakover (M Gal): 99,999 99	Ther One Breakover (M Cai): 99,999 99,999 5,75,00 \$ 137.05 \$ 127.05 \$ 152.09 The Truce Breakover (M Cai): 99,999	Residential 3-inch	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	666'66 666'66 008	666'66 666'66	€	280.29	€9		87.71				3.6229 4.5286 4.5286	0.3623
Tier One Breakover (M Gal): 1,000 1,000 5 875.90 \$ 1,150.00 \$ 274.10 \$ 2.8527 \$ 3.5663 Tier Two Breakover (M Gal): 99,999 99,999 Tier Two Breakover (M Gal): 99,999 99,999 Tier Two Breakover (M Gal): 99,999 99,999 Tier Two Breakover (M Gal): 99,999 99,999 Tier Twe Breakover (M Gal): 99,999 99,999 Tier Twe Breakover (M Gal): 99,999 99,999 Tier Twe Breakover (M Gal): 99,999 99,999 Tier Twe Breakover (M Gal): 99,999 99,999 Tier Twe Breakover (M Gal): 39,999 99,999 Tier Twe Breakover (M Gal): 39,999 99,999 Tier Twe Breakover (M Gal): 35,5663	Tier One Breakover (M Gal): 1,000 1,000 \$ 875,90 \$ 1,150,00 \$ 274.10 \$ 2,8627 \$ 3,629	Residential 4-inch	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	666'66 66'66	666'66 005	↔	437.95			137.05				3.6229 4.5286 4.5286	0.7702
Tier One Breakover (M Gal): 1,500 1,500 \$ 1,401.45 \$ 1,840.00 \$ 438.55 \$ 2.8527 \$ 3.5653 Tier Three Breakover (M Gal): 99,999 99,999 Tier Three Breakover (M Gal): 99,999 99,999 Tier Three Breakover (M Gal): 99,999 99,999 Tier Three Breakover (M Gal): 99,999 99,999 Tier Three Breakover (M Gal): 3,5663 Tier Three Breakover (M Gal): 3,5663	Tier One Breakover (M Gal): 1,500 1,500 \$ 1,401.45 \$ 1,840.00 \$ 438.55 \$ 2.8527 \$ 3.6229 Tier Tirre Breakover (M Gal): 99,999 99,999 Tier Tirre Breakover (M Gal): 99,999 99,999 Tier Tirre Breakover (M Gal): 99,999 99,999 Tier Tirre Breakover (M Gal): 99,999 99,999 Tier Tirre Breakover (M Gal): 99,999 Continued) Continued)	Residential 6-inch	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	1,000 99,999 99,999	1,000 99,999 99,999	↔	875.90			274.10		3.5662		3.6229 4.5286 4.5286	0.7702
Tier One Breakover (M Gal): 2,225 2,300 \$ 2,014.58 \$ 2,645.00 \$ 630.42 \$ 2.8527 \$ 3.5663 Tier Three Breakover (M Gal): 99,999 99,999 39,999 3,5999 39,999	Tier One Breakover (M Gal): 2,225 2,300 \$ 2,014.58 \$ 2,645.00 \$ 630.42 \$ 2,8527 \$ 3,6229 39,999 99,999 99,999 99,999 99,999 99,999 99,999 99,999 99,999 99,999 (Continued)	Residential 8-inch	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	1,500 99,999 99,999	1,500 99,999 99,999					438.55		3.5663		3.6229 4.5286	0.7702
	(Continued)	Residential 10-inch	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	2,225 99,999 99,999	2,300 99,999 99,999					630.42		2.8527 3.5663 3.5663		3.6229 4.5286 4.5286	0.7702 0.9623 0.9623
(Continued)					g	ontinued									

(Continued)

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	Rate Block	÷				, visa	více Charge	:			100	
Class of Service		Present	Proposed - Rebuttal		Present Rate	Pro Rate -	Proposed Rate - Rebuttal	Change		Present Rate	Volumetr t	volumetric Charge (/M Gal) t Proposed Rate - Rebuttal
Commercial 5/8 x 3/4 -inch	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	99,999 99,999	10 99,999 99,999	⇔	18.44	69	23.00 \$	€ -	4.56	\$ 2.8527 3.5663 3.5663	527 \$ 563 563	3.6229 4.5286 4.5286
Commercial 1-inch	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	666'66 666'66	40 99,999 99,999	₩	46.10	↔	57.50	\$ 11.40	40	\$ 2.8527 3.5663 3.5663	527 \$ 563 563	3.6229 4.5286 4.5286
Commercial 1.5-inch	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	n/a n/a n/a	75 99,999 999,99		n/a	↔	115.00	-	n/a		n/a \$ n/a n/a	3.6229 4.5286 4.5286
Commercial 2-inch	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	100 99,999 99,999	125 99,999 99,999	€9	147.52	↔	184.00	\$ 36.48	48	\$ 2.8527 3.5663 3.5663	527 \$ 363 363	3.6229 4.5286 4.5286
Commercial 3-inch	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	275 99,999 99,999	666'66 666'66	↔	295.04	€7	368.00	\$ 72.96		\$ 2.8527 3.5663 3.5663	527 \$ 363 363	3.6229 4.5286 4.5286
Commercial 4-inch	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	450 99,999 99,999	666'66 666'66	69	461.00	↔	575.00	\$ 114.00		\$ 2.8527 3.5663 3.5663	527 \$ 563 563	3.6229 4.5286 4.5286
Commercial 6-inch	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	925 99,999 99,999	1,000 99,999 99,999	69	922.01	€9	1,150.00	\$ 227.99		\$ 2.8527 3.5663 3.5663	527 \$ 363 363	3.6229 4.5286 4.5286
Commercial 8-inch	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	1,500 99,999 99,999	1,500 99,999 99,999	69	1,475.21	€ 9	1,840.00 \$	364.79		\$ 2.8527 3.5663 3.5663	527 \$ 563 563	3.6229 4.5286 4.5286
Commercial 10-inch	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	2,225 99,999 99,999	2,300 99,999 99,999	↔	2,120.61	ө	2,645.00 \$	524.39		\$ 2.8527 3.5663 3.5663	63 \$	3.6229 4.5286 4.5286
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Witness: Reiker

For Service Charges See Company-wide Service Charge Tariff at the end of this schedule

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Class of Service	Rate Block	Dresent	Proposed -		Present Date	Basic Service Charge Proposed	1	0,000		Volun Present	Volumetric Charge (/M Gal)	/M Gal)	
Public Fire Hydrant					n/a			n/a		n/a	n/a		2
Coin Machine	No. Gallons / \$.25 (quarter)				n/a		n/a	n/a		79.83	9	63 20.	20.89%
Construction Water (2-Inch)	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	100 99,999 99,999	125 99,999 99,999	↔	140.14	\$	184.00 \$	43.86	↔	2.8527 3.5663 3.5663	\$ 3.6229 4.5286 4.5286	ა თ	0.7702 0.9623 0.9623
Construction Water (3-Inch)	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	275 99,999 99,999	666'66 666'66 008	⇔	280.29	æ 36	368.00 \$	87.71	\$	2.8527 3.5663 3.5663	\$ 3.6229 4.5286 4.5286	% തെയ	0.7702 0.9623 0.9623
Construction Water (4-Inch)	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	450 99,999 99,999	666'66 005	⇔	437.95	\$ 57	\$ 275.00 \$	137.05	69	2.8527 3.5663 3.5663	\$ 3.6229 4.5286 4.5286	<i>⇔</i> ഗഗഗ	0.7702 0.9623 0.9623
Sales for Resale (5/8-Inch)	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	666'66 666'66	666'66 666'66	↔	17.52	\$	23.00 \$	5.48	ω	2.7660 2.7660 2.7660	\$ 3.6229 3.6229 3.6229	ა თ თ თ	0.8569 0.8569 0.8569
Sales for Resale (1-Inch)	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	666'66 666'66	666'66 666'66	⇔	43.80	<i>S</i>	\$ 05.75	13.70	↔	2.7660 2.7660 2.7660	\$ 3.6229 3.6229 3.6229	€9	0.8569 0.8569 0.8569
Sales for Resale (1.5-Inch)	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	n/a n/a n/a	666'66 666'66		n/a	\$ 11	115.00	n/a		n/a n/a n/a	\$ 3.6229 3.6229 3.6229	თთთ	
Sales for Resale (2-Inch)	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	666'66 666'66	666'66 666'66	↔	140.14	\$ 24	184.00 \$	43.86	↔	2.7660 2.7660 2.7660	\$ 3.6229 3.6229 3.6229	ഴ തതത	0.8569 0.8569 0.8569
Sales for Resale (3-Inch)	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	566'66 566'66	666,66 666,66	69	280.29	9g \$	368.00 \$	87.71	↔	2.7660 2.7660 2.7660	\$ 3.6229 3.6229 3.6229	ა თ თ თ	0.8569 0.8569 0.8569
Sales for Resale (4-Inch)	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	666'66 666'66	666'66 666'66	↔	437.95	\$ 57	\$75.00 \$	137.05	↔	2.7660 2.7660 2.7660	\$ 3.6229 3.6229 3.6229	<i>↔</i> თ თ თ	0.8569 0.8569 0.8569
Sales for Resale (6-Inch)	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	666'66 666'66	666'66 666'66	↔	875.90	\$ 1,15	1,150.00 \$	274.10	₩	2.7660 2.7660 2.7660	\$ 3.6229 3.6229 3.6229	↔	0.8569 0.8569 0.8569
Sales for Resale (8-inch)	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	666'66 666'66	666'66 666'66	↔	1,401.45	48,1	1,840.00 \$	438.55	69	2.7660 2.7660 2.7660	\$ 3.6229 3.6229 3.6229	ഴ തതത	0.8569 0.8569 0.8569
Sales for Resale (10-Inch)	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	666'66 666'66	666'66 666'66	↔	2,014.58	\$ 2,645.00	5.00 \$	630.42	₩	2.7660 2.7660 2.7660	\$ 3.6229 3.6229 3.6229	€9	0.8569 0.8569 0.8569

^{**}For Service Charges See Company-wide Service Charge Tariff at the end of this schedule**

Continue Continue		[A]	[8]	[0]		(a)	<u>[E]</u>		[F]	[9]	Ξ	[1]
The Througe Baseboore (M. Cal.) Cal. C		Rate Block	×	Proposed -		- 1	c Service (Charge		Volur	netric Charge (/M Proposed	Sal)
The Three Breakover (M Gai), 10 10 10 10 10 10 10 10 10 10 10 10 10	Class of Service		Present	Rebuttal	•		ate - Rebu		Shange	Rate	Rate - Rebuttal	Change
The Trope Beackover (M Gal):	Residential 5/8 x 3/4 -inch	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	3 10 99,999	3 10 99,999	↔				6.64	varies varies varies	varies varies varies	varies varies varies
The One Breakover (M Gai): n'a 99,999 100 100 100 100 100 100 100 100 100	Residential 1-inch	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	10 99,999 99,999	35 66,969 66,969	€9				16.61	varies varies varies	varies varies varies	varies varies varies
Tetr One Breakover (M Gal): 174 125 5 108 4 5 108 4 5 100 0 5 53 16 variets variets and the Tetr One Breakover (M Gal): 167 265 5 213 68 5 200 0 5 106 32 variets variets breakover (M Gal): 167 265 99.999 109.999 109.999 109.999 109.999 109.999 109.999 109.999 109.999 109.999 109.999 109.999 109.999 109.999 109.999 100.000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Residential 1.5-inch	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	n/a n/a n/a	52 66,66 66,66				00	n/a	n/a n/a n/a	varies varies varies	
Tier One Brashover (M Gal): 167 265 \$ 219.68 \$ 200.00 \$ 106.32 varies varies Tier Two Brashover (M Gal): 99.999	Residential 2-inch	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	74 99,999 99,999	125 99,999 99,999	↔				53.16	varies varies varies	varies varies varies	v
Tier One Braskover (M Gal): 272 420 \$ 333.88 \$ 500.00 \$ 166.12 varies varies Tier Three Braskover (M Gal): 99.999 99.999 \$ 667.77 \$ 1,000.00 \$ 392.23 varies varies Tier One Braskover (M Gal): 99.999 99.999 \$ 1,006.42 \$ 1,000.00 \$ 531.58 varies varies Tier One Braskover (M Gal): 99.999 99.999 \$ 1,006.42 \$ 1,000.00 \$ 531.58 varies varies Tier One Braskover (M Gal): 1,342 2,000 \$ 1,535.86 \$ 2,300.00 \$ 764.14 varies varies Tier Three Breakover (M Gal): 99.999 <td>Residential 3-inch</td> <td>Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):</td> <td>167 99,999 99,999</td> <td>265 99,999 99,999</td> <td>€</td> <td></td> <td></td> <td></td> <td>106.32</td> <td>varies varies varies</td> <td>varies varies varies</td> <td>va va</td>	Residential 3-inch	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	167 99,999 99,999	265 99,999 99,999	€				106.32	varies varies varies	varies varies varies	va va
Tier Tive Breakover (M Gal): 9567 9600 \$ 1,000.00 \$ 332.23 varies varies Tier Tive Breakover (M Gal): 99,999 99,999 1 1,000 \$ 1,000.00 \$ 531.58 varies varies Tier Tive Breakover (M Gal): 99,999 99,999 1 1,000 \$ 1,000.00 \$ 531.58 varies varies Tier Tive Breakover (M Gal): 99,999 99,999 1 1,000 \$ 1,000.00 \$ 764.14 varies varies Tier Tive Breakover (M Gal): 99,999 99	Residential 4-inch	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	272 99,999 99,999	420 99,999 99,999	€9				166.12	varies varies	varies varies varies	s v s
Tier One Breakover (M Gal): 921 1,390 \$ 1,068.42 \$ 1,600.00 \$ 531.58 varies varies Tier Three Breakover (M Gal): 99,999 99,999 Tier Three Breakover (M Gal): 99,999 99,999 Tier Three Breakover (M Gal): 99,999 99,999 Tier Three Breakover (M Gal): 99,999 99,999 Tier Three Breakover (M Gal): 99,999 99,999 Tier Three Breakover (M Gal): 99,999	Residential 6-inch	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	567 999,999 99,999	666'66 666'66	69				332.23	varies varies varies	varies varies varies	v va va
Tier One Breakover (M Gal): 1,342 2,000 \$ 1,535.86 \$ 2,300.00 \$ 764.14 varies varies Tier Two Breakover (M Gal): 99,999 99,999 99,999 Tier Three Breakover (M Gal): 99,999	Residential 8-inch	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	921 99,999 99,999	1,390 99,999 99,999	↔				531.58	varies varies	varies varies varies	s va
(Continued)	Residential 10-inch	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	1,342 99,999 99,999	2,000 99,999 99,999	↔				764.14	varies varies varies	varies varies varies	9 9 9
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For Service Charges See Company-wide Service Charge Tariff at the end of this schedule

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The Chee Brankover (M Gal)		Rate B	ock		ľ	i	sic Service	Charge			Volun	netric Charge (/M	Gal)
Heat The Desireme (M Gal); 19, 99, 999 99,999 13, 98,999 14, 40.0 1.0	Class of Service		Present	Proposed - Rebuttal	-		Propose Rate - Reb	d uttal	Change		Present Rate	Proposed Rate - Rebuttal	Change
The Three Breakover (M. Cas), 99,999 93,999 The Three Breakover (M. Cas), 16,999 93,999 The Three Breakover (M. Cas), 16,999 93,999 The Three Breakover (M. Cas), 16,999 93,999 The Three Breakover (M. Cas), 16,999 93,999 The Three Breakover (M. Cas), 16,999 93,999 The Three Breakover (M. Cas), 19,999 The Three Breakover (M. Cas), 19,999 The Three Breakover (M. Cas), 19,999 The Three Breakover (M. Cas), 19,999 The Three Breakover (M. Cas), 19,999 The Three Breakover (M. Cas), 19,999 The Three Breakover (M. Cas), 19,999 The Three Breakover (M. Cas), 19,999 The Three Breakover (M. Cas), 19,999 The Three Breakover (M. Cas), 19,999 The Three Breakover (M. Cas), 19,999 The Three Breakover (M. Cas), 19,999 The Three Breakover (M. Cas), 19,999 The Three Breakover (M. Cas), 19,999 The Three Breakover (M. Cas), 19,999 The Three Breakover (M. Cas), 19,999 The Three Breakover (M. Cas), 19,999 The Three Breakover (M. Cas), 19,999 The Three Br	Commercial 5/8 x 3/4 -inch	Tier One Breakover (M Gal):	10	10	₩					64	varies	varies	
The One Breakover (M Gal): 19,989 19,989 1, 100 00 1, 16 1 1, 10 1		Tier Three Breakover (M Gal):	666'66 666'66	666'66							varies	varies varies	
Tier One Beaktover (M. Gal); 99,999 99,999 166 17 100 10 10 10 10 10 10 10 10 10 10 10 10	Commercial 1-inch	Tier One Breakover (M Gal):	25	35	€					61	varies	varies	
THE One Breakover (M Gal): 10, 10, 10, 10, 10, 10, 10, 10, 10, 10,		Tier Two Breakover (M Gal):	666'66	666'66							varies	varies	
Tet Che Beakover (M. Gal): 118 9999 175 118 5 100 00 10 10 10 10 10 10 10 10 10 10 10			200,00	5							valies	varies	
Ther Three Breakover (M Gal); 775 265 5 106.84 \$ 160.00 \$ 53.16 varies and the first three Breakover (M Gal); 789,999 199.999 199.999 176 7 106.84 \$ 160.00 \$ 53.16 varies and the first three Breakover (M Gal); 99,999 199.9	Commercial 1.5-inch	Tier One Breakover (M Gal):	n/a	75				00.0		ı/a	n/a	varies	
Tier One Breakover (M Gal): 99,999 99,999 106.84 \$ 160.00 \$ 53.16 varies varies Tre Two Breakover (M Gal): 99,999 99,999 1 213.68 \$ 2713.68 \$ 320.00 \$ 106.32 varies Tre Two Breakover (M Gal): 99,999 99,999 99,999 1 Tier Two Breakover (M Gal): 99,999 99,999 99,999 1 Tier Two Breakover (M Gal): 99,999 99,999 99,999 1 Tier Two Breakover (M Gal): 99,999 99,999 99,999 1 Tier Two Breakover (M Gal): 99,999 99,999 99,999 1 Tier Two Breakover (M Gal): 99,999 99,999 99,999 1 Tier Two Breakover (M Gal): 99,999 99,999 99,999 1 Tier Two Breakover (M Gal): 99,999 99,999 1 Tier Two Breakover (M Gal): 99,999 99,999 8 1,535.88 \$ 2,300.00 \$ 764,14 varies Tre Tree Breakover (M Gal): 99,999 99,999 99,999 1 Tier Two Breakover (M Gal): 99,999		Tier Three Breakover (M Gal):	n/a n/a	666'66 66'66							n/a n/a	varies varies	
Tier Trice Breakover (M Gal): 99,999 99,999 99,999 1000 4 1,500 5 1000 4 2010 4 varies Tier Trice Breakover (M Gal): 99,999 99,999 1000 5 1000 5 1000 5 1000 2 varies Tier Trice Breakover (M Gal): 99,999 99,999 1000 5 1000 0 5 1000 10 varies Tier Trice Breakover (M Gal): 99,999 99,999 1000 5 1000 0 5 1000 10 varies Tier Trice Breakover (M Gal): 99,999 99,999 1000 0 5 1000 0 5 1000 10 varies Tier Trice Breakover (M Gal): 99,999 99,999 1000 0 5 1000 0 5 1000 0 7 varies Tier Trice Breakover (M Gal): 99,999 99,999 1000 0 5 1000 0 5 1000 0 7 varies Tier Trice Breakover (M Gal): 99,999 99,999 1000 0 5 1,500 0 7 764 14 varies Tier Trice Breakover (M Gal): 99,999 99,999 1000 0 5 1,500 0 7 764 14 varies Tier Trice Breakover (M Gal): 99,999 99,999 1000 0 5 1,500 0 7 764 14 varies Tier Trice Breakover (M Gal): 99,999 99,999 1000 0 5 1,500 0 7 764 14 varies Tier Trice Breakover (M Gal): 99,999 99,999 1000 0 5 1,500 0 7 764 14 varies Tier Trice Breakover (M Gal): 99,999 99,999 1000 0 5 1,500 0 7 764 14 varies Tier Trice Breakover (M Gal): 99,999 99,999 1000 0 5 1,500 0 7 764 14 varies Tier Trice Breakover (M Gal): 99,999 99,999 1000 0 7 764 14 varies Tier Trice Breakover (M Gal): 99,999 99,999 1000 0 7 764 14 varies Tier Trice Breakover (M Gal): 99,999 99,999 1000 0 7 764 14 varies Tier Trice Breakover (M Gal): 99,999 99,999 1000 0 7 764 14 varies Tier Trice Breakover (M Gal): 99,999 99,999 1000 0 7 764 14 varies Tier Trice Breakover (M Gal): 99,999 99,999 1000 0 7 764 14 varies Tier Trice Breakover (M Gal): 99,999 99,999 1000 0 7 764 14 varies Tier Trice Breakover (M Gal): 99,999 99,999 1000 0 7 764 14 varies Tier Trice Breakover (M Gal): 99,999 99,999 1000 0 7 764 14 varies Tier Trice Breakover (M Gal): 99,999 99,999 1000 0 7 764 14 varies Tier Trice Breakover (M Gal): 99,999 99,999 99,999 1000 0 7 764 14 varies Tier Trice Breakover (M Gal): 99,999 99,999 99,999 1000 0 7 764 14 varies Tier Trice Breakover (M Gal): 99,999 99,999 99,999 99,999 99,999 99,999 99,999 99,999 99,999 99,999 99,999 99,999	Commercial 2-inch	Tier One Breakover (M Gal):	ά	125	¥					4	,,,	1	
Tier Three Breakover (M Gal): 99,999 99,999 1 167 Three Breakover (M Gal): 99,999 99,999 1 167 Three Breakover (M Gal): 99,999 99,999 1 167 Three Breakover (M Gal): 99,999 99,999 99,999 1 167 Three Breakover (M Gal): 99,999 99		Tier Two Breakover (M Gal):	666'66	666'66	•					2	varies	varies	
Tier One Breakover (M Gal): 99,999 99,999 1 160 00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		Tier Three Breakover (M Gal):	666'66	666'66							varies	varies	
Tier Three Breakover (M Gal): 99,999 99,999 Tier Three Breakover (M Gal): 99,999 99,999 1Tier Three Breakover (M Gal): 99,999 99,999 1Tier Three Breakover (M Gal): 99,999 99,999 99,999 1Tier Three Breakover (M Gal): 99,999 99,999 99,999 1Tier Three Breakover (M Gal): 99,999 99,999 99,999 1Tier Three Breakover (M Gal): 99,999 99,999 1Tier Three Breakover (M Gal): 99,999 99,999 1Tier Three Breakover (M Gal): 99,999 99,999 99,999 1Tier Three Breakover (M Gal): 99,999 99,999 99,999 1Tier Three Breakover (M Gal): 99,999	Commercial 3-inch	Tier One Breakover (M Gal):	175	265	s					32	varies	varies	
Tier Three Breakover (M Gal): 99,999 99,999 1		Tier Two Breakover (M Gal):	666'66	666'66							varies	varies	
Ther One Breakover (M Gal): 9999 99999 1999999		Tier Three Breakover (M Gal):	666'66	666'66							varies	varies	
Tier Three Breakover (M Gal): 99,999 99,999 99,999 10,000 0 332.23 varies varies l'en l'en l'en l'en l'en l'en l'en l'en	Commercial 4-inch	Tier One Breakover (M Gal):	280	420	69					12	varies	varies	
Tier Droe Breakover (M Gal): 99,999 99,999 1 1 1 1 1 1 1 1 1 1 1 1 1		Tier Two Breakover (M Gal):	666'66	666'66							varies	varies	
Tier One Breakover (M Gal): 99,999 99,999 1,390 5 1,000,00 5 332.23 varies varies Tier Two Breakover (M Gal): 99,999 99,999 1,390 5 1,068.42 \$ 1,600.00 \$ 5,315.8 varies varies Tier Two Breakover (M Gal): 99,999 99,999 17 incr Three Breakover (M Gal): 99,999 99,999 17 incr Three Breakover (M Gal): 99,999 99,999 17 incr Three Breakover (M Gal): 99,999 99,999 17 incr Three Breakover (M Gal): 99,999 99,999 99,999 17 incr Three Breakover (M Gal): 99,999 99,999 99,999 17 incr Three Breakover (M Gal): 99,999 99,999 99,999 17 incr Three Breakover (M Gal): 99,999 9		Tier Three Breakover (M Gal):	666'66	666'66							varies	varies	
Ter Two Breakover (M Gal): 99,999 99,999 Ter Three Breakover (M Gal): 99,999 99,999 Tier Twe Breakover (M Gal): 99,999 99,999 Tier Twe Breakover (M Gal): 99,999 99,999 Tier Twe Breakover (M Gal): 99,999 99,999 Tier Twe Breakover (M Gal): 99,999 99,999 Tier Twe Breakover (M Gal): 99,999 99,999 Tier Twe Breakover (M Gal): 99,999 99,999 Tier Twe Breakover (M Gal): 99,999 99,999 Tier Twe Breakover (M Gal): 99,999 99,999 Tier Twe Breakover (M Gal): 99,999 Tier Twe Breakov	Commercial 6-inch	Tier One Breakover (M Gal):	575	860	69					23	varies	varies	
Tier One Breakover (M Gal): 99,999 1,390 \$ 1,068.42 \$ 1,000.00 \$ 531.56 varies Tier One Breakover (M Gal): 99,999 99,999 Tier Three Breakover (M Gal): 99,999 99,999 Tier Three Breakover (M Gal): 99,999 99,999 Tier Three Breakover (M Gal): 99,999 99,999 Tier Three Breakover (M Gal): 99,999 99,999 Tier Three Breakover (M Gal): 99,999 99,999 Tier Three Breakover (M Gal): 99,999 99,999 Tier Three Breakover (M Gal): 99,999 99,999 Tier Three Breakover (M Gal): 99,999 99,999 Tier Three Breakover (M Gal): 99,999 99,999 Tier Three Breakover (M Gal): 99,999 99,999		Tier Two Breakover (M Gal):	666'66	666'66							varies	varies	
Tier One Breakover (M Gal): 929 1,390 \$ 1,068.42 \$ 1,600.00 \$ 531.58 varies Tier Two Breakover (M Gal): 99,999 99,999 Tier Three Breakover (M Gal): 99,999 99,999 Tier Three Breakover (M Gal): 99,999 99,999 Tier Three Breakover (M Gal): 99,999 99,999 Tier Three Breakover (M Gal): 99,999 99,999 Tier Three Breakover (M Gal): 99,999 (Continued)		lier ihree Breakover (M Gal):	666'66	666'66							varies	varies	
Tier Two Breakover (M Gal): 99,999 Tier Three Breakover (M Gal): 99,999 Tier Three Breakover (M Gal): 99,999 Tier Three Breakover (M Gal): 99,999 Tier Three Breakover (M Gal): 99,999 Tier Three Breakover (M Gal): 99,999 (Continued)	Commercial 8-inch	Tier One Breakover (M Gal):	929	1,390	69					58	varies	varies	
Tier Three Breakover (M Gal): 1,342 2,000 \$ 1,535.86 \$ 2,300.00 \$ 764.14 varies Tier Three Breakover (M Gal): 99,999 99,999 Tier Three Breakover (M Gal): 99,999 99,999 (Continued)		Tier Two Breakover (M Gal):	666'66	666'66							varies	varies	
Tier Three Breakover (M Gal): 1,342 2,000 \$ 1,535.86 \$ 2,300.00 \$ 764.14 varies Tier Three Breakover (M Gal): 99,999 99,999 Tier Three Breakover (M Gal): 99,999 99,999 Tier Three Breakover (M Gal): 99,999 99,999 (Continued)		Her Three Breakover (M Gal):	666'66	666'66							varies	varies	
99,999 varies varies 99,999 g.999 varies 99,999 (Continued)	Commercial 10-inch	Tier One Breakover (M Gal):	1,342	2,000	69					14	varies	varies	
Continued)		Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	666'66	666'66							varies	varies	
(Continued)		TO THE CONTRACT (M. Ca.).	0 0 0 0 0	6 6 6 6 6							Varies	20 20 20 20 20 20 20 20 20 20 20 20 20 2	
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Particular Signature Sig		7.	<u>.</u>	Σ		<u> </u>	<u> </u>		Ξ	<u>5</u>	Ξ		Ξ
Ther Three Breaktover (M. Cali). 99,9999 99,999 8, 24,400 \$ 6,200 \$ 6,400 warries 5 or 1 feet Three Breaktover (M. Cali). 99,9999 99,99	Class of Service	Rate Bl.		Proposed - Rebuttal	ł	1	Service Char Proposed ate - Rebuttal	1	ange	Volu Present Rate	metric Charge Proposed Rate - Rebu	e (/M Gal	() Change
Tire True Breakover (M. Gai), 99,999 99,999 1, 145 00 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Industrial 5/8 x 3/4 -inch	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	666'66 666'66	666'66 666'66	€9		29.00	↔	4.20	varies varies varies		200	
Tier One Breaktover (M Gai):	Industrial 1-inch	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	666'66 666'66	666'66 666'66	⇔		72.50	↔	10.49	varies varies varies		200	
Ther One Breakover (M Gal): 99 999 999 99 999 999 999 999 999 999	Industrial 1.5-inch	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	n/a n/a n/a	666'66 666'66			145.00		n/a	ה/ח ת/a ח/a		200 200 200	
Tier One Breakover (M Gai): 99,999 99,999 \$ 396.84 \$ 464.00 \$ 6716 varies \$ 1 rer Nee Breakover (M Gai): 99,999 99,999 \$ 39,999 99,999 \$ 100.00 Breakover (M Gai): 99,999	Industrial 2-inch	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	666'66 666'66	666'66 666'66 666'66	€9		232.00	↔	33.58	varies varies		200	
Tier Two Breaktover (M Gal): 99,999 99,999 99,999 17 Ter Two Breaktover (M Gal): 99,999 99,999 99,999 17 Ter Two Breaktover (M Gal): 99,999 99,999 18 1,240.14 \$ 1,450.00 \$ 209.86	Industrial 3-inch	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	666'66 666'66	666'66 666'66	€9		464.00	↔	67.16	varies varies		200	
Tier One Breakover (M Gal): 99,999 99,999 \$ 1,240.14 \$ 1,450.00 \$ 209.86 varies \$ Tier Three Breakover (M Gal): 99,999 99	Industrial 4-inch	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	666'66 666'66 666'66	666'66 666'66	€9		725.00		104.93	varies varies		200	
Tier One Breakover (M Gal): 99,999 99,999 \$ 1,984.22 \$ 2,320.00 \$ 335.78 varies \$ Tier Two Breakover (M Gal): 99,999 99,999 \$ 2,852.31 \$ 3,335.00 \$ 482.69 varies \$ Varies Tree Breakover (M Gal): 99,999 99,999 \$ 2,852.31 \$ 3,335.00 \$ 465	Industrial 6-inch	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	666'66 666'66	666'66 666'66	₩		1,450.00		209.86	varies varies varies		500 500 500	
Tier One Breakover (M Gal): 99,999 \$ 2,852.31 \$ 3,335.00 \$ 482.69 varies \$ varies Tier Three Breakover (M Gal): 99,999 99,999 1	Industrial 8-inch	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	666'66 666'66	666'66 666'66	↔		2,320.00	↔	335.78	varies varies varies		200	
All meter connection sizes: \$ 23.85 \$ 26.50 \$ 4.65 n/a	Industrial 10-inch	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	666'66 666'66	666'66 666'66	€		3,335.00	↔	482.69	varies varies varies		200	
(Continued)	Private Fire Service	All meter connection sizes:			↔		28.50	69	4.65	n/a		n/a	
(Continued)													
					Continuec	()							

^{*}For Service Charges See Company-wide Service Charge Tariff at the end of this schedule**

						[-	Ξ		:
	Rate Block	S,	Proposed -		Basic	Basic Service Charge Proposed	harge		Volum	Volumetric Charge (/M Gal)	Gal)
Class of Service		Present	Rebuttal			Rate - Rebuttal		Change		Rate - Rebuttal	Change
Public Fire Hydrant					n/a	_	n/a	n/a	n/a	n/a	
Coin Machine	No. Gallons / \$.25 (quarter)				n/a	-	n/a	n/a	n/a	n/a	
Construction Water (2-Inch)	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	666'66 666'66	125 99,999 99,999	↔	106.84 \$	160.00	\$	53.16	varies varies	varies varies varies	varies varies
Construction Water (3-Inch)	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	175 99,999 99,999	265 99,999 99,999	⇔	213.68 \$	320.00	\$	106.32	varies varies varies	varies varies varies	varies varies varies
Construction Water (4-Inch)	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	280 99,999 99,999	420 99,999 99,999	↔	333.88 \$	500.00	\$	166.12	varies varies varies	varies varies varies	varies varies varies
Sales for Resale (5/8-Inch)	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	666'66 666'66	666'66 666'66	₩	13.36 \$	20.00	\$	6.64	varies varies varies	varies varies varies	varies varies varies
Sales for Resale (1-Inch)	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	666'66 666'66	666'66 666'66	₩	33.39	90.00	\$	16.61	varies varies varies	varies varies varies	varies varies varies
Sales for Resale (1.5-Inch)	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	n/a n/a n/a	666'66 666'66		n/a \$	100.00	0	n/a	n/a n/a n/a	varies varies varies	
Sales for Resale (2-Inch)	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	666'66 666'66	666'66 666'66	↔	106.84 \$	160.00	\$	53.16	varies varies varies	varies varies varies	varies varies varies
Sales for Resale (3-Inch)	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	666'66 666'66	666'66 666'66	69	213.68 \$	320.00	\$	106.32	varies varies varies	varies varies varies	varies varies varies
Sales for Resale (4-inch)	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	666'66 666'66	666'66 666'66	↔	333.88 \$	500.00	\$	166.12	varies varies varies	varies varies	varies varies varies
Sales for Resale (6-Inch)	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	666'66 666'66	666'66 666'66	↔	\$ 22.77	1,000.00	\$ 00	332.23	varies varies varies	varies varies varies	varies varies varies
Sales for Resale (8-Inch)	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	666'66 666'66	666'66 666'66	€9	1,068.42 \$	1,600.00	\$	531.58	varies varies varies	varies varies varies	varies varies
Sales for Resale (10-inch)	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	666'66 666'66	666'66 666'66	↔	1,535.86 \$	2,300.00	\$	764.14	varies varies varies	varies varies varies	varies varies varies

^{**}For Service Charges See Company-wide Service Charge Tariff at the end of this schedule**

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Change

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ARIZONA WATER COMPANY
Test Year Ended December 31, 2010
Changes in Representative Rate Schedules

Properties Pro		[A]	[8]	<u>[</u>		[0]	Œ		(F)		[6]	Ξ	
Ther One Breakbover (M Gal); 10 10 10 10 10 10 10 1	Class of Service	Rate E	Drasant	Proposed -		- 1	Proposed	i i			Volume Present	Proposed	M Ga
Tier One Breakover (M Gai): 99,999 99,999 1,100 0 1,10	Residential 5/8 x 3/4 -inch	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	3 10 99,999	3 10 99,999	↔	3.36	4	₩	6.64	⇔	039 049 312	3.5410 4.4262 5.5328	69
Tetr One Breakover (M Gal): nna 95,999 nna 74 125 5 106.84 \$ 100.00 Nna nna nna 8 1078 nna nna 1078 nn	Residential 1-inch	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	10 99,999 99,999	35 99,999 99,999	€9		25		16.61	↔		4.4262 5.5328 5.5328	6 9
Ther One Breakover (M Gai); 99.99 99.999 19.999 19.999 19.999 19.999 19.999 19.999 19.999 19.9	Residential 1,5-inch	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	ה/מ ה/ח ה/מ	75 99,999 99,999			100	00:	n/a			4.4262 5.5328 5.5328	
Ter One Breakover (M Gal): 167 285 \$ 213.68 \$ 200.00 \$ 106.32 \$ 4,5049 \$ 5,517 Ter Three Breakover (M Gal): 99,999 99,999 10,999	Residential 2-inch	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	74 99,999 99,999	125 99,999 99,999	69		160		53.16	€9		4.4262 5.5328 5.5328	
Tier One Breakover (M Gal): 9272 420 \$ 333 88 \$ 500.00 \$ 166.12 \$ 4,5049 \$ 5 171 The Preakover (M Gal): 99,999 99,999 19,	Residential 3-inch	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	167 99,999 99,999	265 99,999 99,999	69		320		106.32	69		4.4262 5.5328 5.5328	
Tier One Breakover (M Gal): 967 860 \$ 667.77 \$ 1,000.00 \$ 332.23 \$ 4 5649 \$ 5 6312 Tier Three Breakover (M Gal): 99,999 99,999 \$ 1,686.42 \$ 1,600.00 \$ 531.58 \$ 4 5649 \$ 5 6312 Tier Three Breakover (M Gal): 99,999 99,999 99,999 Tier Three Breakover (M Gal): 99,999 99,999 99,999 Tier Three Breakover (M Gal): 99,999 99,999 99,999 Tier Three Breakover (M Gal): 99,999 99,999 Tier Three Breakover (M Gal): 99,999 99,999 Tier Three Breakover (M Gal): 99,999 99,999 Tier Three Breakover (M Gal): 99,999 99,999	Residential 4-inch	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	272 99,999 99,999	420 99,999 99,999	₩		500		166.12	69		4.4262 5.5328 5.5328	
Tier One Breakover (M Gal): 921 1,390 \$ 1,068 42 \$ 1,600 00 \$ 531.58 \$ 4,5049 \$ 5	Residential 6-inch	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	567 666,66 666,66	666'66 66'66	€9		1,000		332.23	69		4.4262 5.5328 5.5328	
Tier Three Breakover (M Gal): 1,342 2,000 \$ 1,535.86 \$ 2,300.00 \$ 764.14 \$ 4,5049 \$ 5.6312 Tier Three Breakover (M Gal): 99,999 99,999 Tier Three Breakover (M Gal): 99,999 99,999 (Continued)	Residential 8-inch	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	921 99,999 99,999	1,390 99,999 99,999	69		1,600		531.58	49		4.4262 5.5328 5.5328	
(Continued)	Residential 10-inch	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	1,342 99,999 99,999	2,000 99,999 99,999	↔		2,300		764.14	↔		4.4262 5.5328 5.5328	
(Continued)													
				9)	Sontinued)								

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Commercial 5 to 3 to 4 to 1		[A]	<u>9</u>	<u>ত</u>		a) (o)	Ξ		[F]		[6]	Ξ	Ξ
### Time Character (M Gai); 9,999 99,999 133.0 \$ 133.0 \$ 664 \$ 664 \$ 6,5042 \$ 55208 \$ 55208 \$ 113.0 \$ 113.0 \$ 10.0 \$ 113.0 \$ 664 \$ 6,5042 \$ 55208 \$ 55208 \$ 113.0 \$ 11	Class of Service	Rate Block	Present	Proposed - Rebuttal	-		C Service Ch Proposed ate - Rebutt	į.	ange	1	Volumetric ssent P	c Charge (/M c Proposed e - Rebuttal	Ghange Change
Tetro be Breakhover (M Gal); 69,989 99,989	Commercial 5/8 x 3/4 -inch	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	10 99,999 99,999	10 99,999 99,999	69			↔	6.64		049 312 312	4.4262 5.5328 5.5328	
The Three Breaktover (M. Gai): The Three Breaktover (M. Gai):	Commercial 1-inch	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	25 99,999 99,999	35 99,999 99,999	₩				16.61	↔		4.4262 5.5328 5.5328	\$ (0.0787) (0.0984) (0.0984)
Ther One Breaktover (M Gai): 9999 9999 99999 99999 99999 99999 99999	Commercial 1.5-inch	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	ח/מ ה/מ ה/מ	52 66,66 66,66				0	n/a			4.4262 5.5328 5.5328	ה/ח ח/a ח/a
Ther One Breakover (M Ga); 99,999 99,999 15000 5 106.32 5 65012 5 55328 1	Commercial 2-inch	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	85 99,999 99,999	125 99,999 99,999	↔				53.16	↔		4.4262 5.5328 5.5328	\$ (0.0787) (0.0984) (0.0984)
Tier One Breakover (M Gal): 99999 99999 156777 \$ 1000 0 \$ 166.12 \$ 6.5049 \$ 4.5049 \$ 6.5028 \$ 16777 \$ 1000 0 \$ 332.23 \$ 6.5012 \$ 5.5328 \$ 16777 \$ 1000 0 \$ 332.23 \$ 6.5012 \$ 5.5328 \$ 16777 \$ 1000 0 \$ 10	Commercial 3-inch	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	175 99,999 99,999	265 99,999 99,999	69				106.32	€9		4.4262 5.5328 5.5328	\$ (0.0787) (0.0984) (0.0984)
Tier One Breakover (M Gal): 99,999 99,999 1,000 00 00 00 00 00 00 00 00 00 00 00 00	Commercial 4-inch	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	280 99,999 99,999	420 99,999 99,999	↔				166.12	€9		4.4262 5.5328 5.5328	\$ (0.0787) (0.0984) (0.0984)
Tier One Breakover (M Gal): 929 1,390 5,999 99,999 99,999 7,500 0 \$ 1,068.42 \$ 1,600.00 \$ 531.58 \$ 4,5049 \$ 4,4262 \$ 5,5328	Commercial 6-inch	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	575 99,999 99,999	986,999 99,999 99,999	₩				332.23	€		4.4262 5.5328 5.5328	\$ (0.0787) (0.0984) (0.0984)
Tier One Breakover (M Gal): 1,342 2,000 \$ 1,535.86 \$ 2,300.00 \$ 764.14 \$ 4,5049 \$ 4.4262 \$ 5,5328	Commercial 8-inch	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	926 99,999 99,999	1,390 99,999 99,999	₩				531.58	⇔			\$ (0.0787) (0.0984) (0.0984)
(Continued)	Commercial 10-inch	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	1,342 99,999 99,999	2,000 99,999 99,999	↔				764.14	↔			
(Continued)													
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Particular Par		[A]	[8]	[0]		a) [a]	(E)	1	(F)		[9]	Ξ		≡
The One Beatouver (M Gal)		Rate Block		Proposed -	-		Service Char Proposed	eg		ď	Volun	netric Ch Propo	arge (/M G	a)
Ter Three Breakover (M Gal); 99,9999 99,9999 1	Industrial 5/8 x 3/4 -inch		Present 99,999	Rebuttal	€	68	ate - Rebuttal		<u>nge</u> 4 20		<u>Rate</u> 5 6311	ate -		Change
Terr Two Breakover (M Gal). Terr Two Breakov		Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	666'66 666'66	666'66 666'66	•			•		•	5.6311			
Tier Three Breaktover (M Gai): 109 99999 1999999	Industrial 1-inch	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	666'66 666'66	666'66 666'66	€9		72.50	₩	10.49	49	5.6311 5.6311 5.6311			0.1189
Tied' row Breakover (M Ga); 9999 999 999 999 999 999 999 999 999	Industrial 1.5-inch	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	n/a n/a n/a	666'66 666'66			145.00		n/a		n/a n/a n/a		5.7500 5.7500 5.7500	
Tier One Breakover (M Gai): 99,999 99,999 99,999 161 Tier Three Breakover (M Gai): 99,999 99,999 199,9	Industrial 2-inch	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	666'66 666'66	666'66 666'66	↔		232.00	↔	33.58	↔	5.6311 5.6311 5.6311			0.1189
Tier One Breakover (M Gal): 99,999 99,999 1 1240.14 \$ 1250.05 \$ 104.93 \$ 5.5311 \$ 5.7500 \$ 1767.00 Breakover (M Gal): 99,999 99,999 99,999 1 1240.14 \$ 1,450.00 \$ 209.86 \$ 5.6311 \$ 5.7500 \$ 5.7500 \$ 1767.00 Breakover (M Gal): 99,999 9	Industrial 3-inch	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	666'66 666'66	666'66 666'66	69		464.00	↔	67.16	↔	5.6311 5.6311 5.6311			
Tier One Brakover (M Gal): 99,999 99,999 1,240.14 \$ 1,450.00 \$ 209.86 \$ 5,6311 \$ 5,7500 \$ 7750	Industrial 4-inch	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	666'66 666'66	666'66 666'66	69		725.00		104.93	69	5.6311 5.6311 5.6311			0.1189
Tier One Breakover (M Gal): 99,999 99,999 99,999 1,084.22 \$ 2,320.00 \$ 335.78 \$ 5,6311 \$ 5,7500 \$ 187 Three Breakover (M Gal): 99,999 9	Industrial 6-inch	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	666'66 666'66	666'66 666'66	€7		1,450.00		209.86	↔	5.6311 5.6311 5.6311			0.1189
Tier One Breakover (M Gal): 99,999 99,999 \$ 2,852.31 \$ 3,335.00 \$ 482.69 \$ 5,6311 \$ 5,7500 \$ 7,7500 \$	Industrial 8-inch	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	666'66 666'66	666'66 666'66	↔		2,320.00		335.78	€9	5.6311 5.6311 5.6311			
All meter connection sizes: \$ 23.85 \$ 24.65 n/a (Continued)	Industrial 10-inch	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	666'66 666'66	666'66 666'66	⇔		3,335.00		182.69	↔	5.6311 5.6311 5.6311			
(Continued)	Private Fire Service	All meter connection sizes:			↔		28.50	↔	4.65		n/a		n/a	
(Continued)														
				9)	Continued	(

^{**}For Service Charges See Company-wide Service Charge Tariff at the end of this schedule**

Changes in Representative Rate Schedules

ARIZONA WATER COMPANY Test Year Ended December 31, 2010

(1.2049) (1.2049) (1.2049) (1.2049) (1.2049) (1.2049) (1.2049) (1.2049) (1.2049) (1.2049) (1.2049) (1.2049) (1.2049) (0.0984)(0.0984)(0.0787)(0.0984)(0.0787)(0.0984)(1.2049)(1.2049)(1.2049)(1.2049) (1.2049) (1.2049) (1.2049) (0.0984)(0.0787)(0.0984)n/a n/a n/a (1.2049)√a n/a Change Ξ Volumetric Charge (/M Gal) ↔ 69 69 H 69 s ø 69 ↔ w 4.4262 4.4262 4.4262 4.4262 5.5328 5.5328 4.4262 4.4262 5.5328 4.4262 5.5328 5.5328 4.4262 n/a ďa 4.4262 Rate - Rebuttal Ξ 69 ь 69 ю 5.6311 5.6311 5.6311 4.5049 5.6312 4.5049 5.6312 4.5049 5.6312 5.6312 5.6311 5.6311 5.6311 5.6311 5.6311 5.6311 5.6311 5.6311 5.6311 5.6311 5.6311 5.6311 5.6311 5.6311 5.6311 5.6311 5.6311 5.6311 5.6311 n/a n/a n/a 5.6311 ďa o/a 5.6311 Present Rate 49 69 4 ↔ ь ↔ ↔ 53.16 166.12 53.16 n/a ď 106.32 n/a 106.32 2 332.23 28 764.14 6.64 16.61 Change 166. 531 匞 Basic Service Charge Proposed Rate - Rebuttal ₩ 69 69 69 ↔ 69 69 4 ø S ↔ 160.00 320.00 500.00 20.00 50.00 100.00 n/a n/a 8 8 8 1,000.00 2,300.00 1,600.00 160.0 320.0 500. Œ Cochise (Bisbee) ₩ ઝ 49 ₩ ₩ ↔ ø ઝ G 69 ₩ ↔ 213.68 106.84 333.88 13.36 33.39 333.88 7/a п/а <u>_</u>/a 106.84 213.68 17 1,068.42 1,535.86 Present . 299 Rate ፸ ø 69 69 69 ↔ 69 125 99,999 99,999 265 99,999 99,999 666'66 666'66 666'66 666'66 666'66 666'66 666'66 666'66 666'66 66'66 66'66 666'66 666'66 666'66 666'66 666'66 666'66 666'66 666'66 666'66 666'66 420 Proposed -Rebuttal ටු 666'66 175 99,999 99,999 280 99,999 99,999 666'66 666'66 666'66 66'66 n/a n/a n/a 666'66 666'66 666'66 666'66 666,66 66,66 66,66 666,66 66,999 666'66 666'66 666'66 666'66 <u>@</u> Rate Block Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal): Tier One Breakover (M Gat): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal): Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal): Fier Three Breakover (M Gat): Tier Three Breakover (M Gat): ier Three Breakover (M Gal). Tier Three Breakover (M Gat): Fier Three Breakover (M Gal): Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal): Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal): Fier Three Breakover (M Gal) Fier Three Breakover (M Gal) Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier One Breakover (M Gal): Fier Two Breakover (M Gal): Fier One Breakover (M Gal): Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier One Breakover (M Gal): Fier Two Breakover (M Gal): Tier Two Breakover (M Gal) No. Gallons / \$.25 (quarter) ⊠ Construction Water (2-Inch) Construction Water (3-Inch) Construction Water (4-Inch) Sales for Resale (5/8-Inch) Sales for Resale (1.5-Inch) Sales for Resale (10-Inch) Sales for Resale (1-Inch) Sales for Resale (2-Inch) Sales for Resale (4-Inch) Sales for Resale (6-Inch) Sales for Resale (3-Inch) Sales for Resale (8-Inch) Public Fire Hydrant Coin Machine Class of Service $\frac{1}{1}$ $\frac{1}$

For Service Charges See Company-wide Service Charge Tariff at the end of this schedule

	<u>.</u>	[8]	[0]		<u>[</u>	[D] (E)		[-]		[9]	Ξ ,		E
Class of Service	Rate Block	Present	Proposed - Rebuttal	lg T	Basic Present Rate Ra	Basic Service Charge Proposed Rate - Rebuttal		Change	<u> </u>	Volumetric Present P	Volumetric Charge (/M Gal) It Proposed Rate - Rebuttal	(Carl)	Change
Residential 5/8 x 3/4 -inch Tier One Bn Tier Two Bn Tier Three E	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	3 10 99,999	3 10 99,999	↔	13.36 \$	20.00	↔	6.64	₩	626 032 290	1.6600 2.0750 2.5938	69	0.2974 0.3718 0.4648
Residential 1-inch Tier One Br Tier Two Br Tier Three E	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	10 99,999 99,999	35 99,999 99,999	↔	33.39 \$	50.00	\$	16.61	₩	1.7032 \$ 2.1290 2.1290	2.0750 2.5938 2.5938	↔	0.3718 0.4648 0.4648
Residential 1.5-inch Tier One Br Tier Two Br Tier Three E	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	ה/ח ה/ח ה/ח	5 <u>/</u> 666'66 66'66		n/a \$	100.00		n/a		n/a \$ n/a n/a	2.0750 2.5938 2.5938		n/a n/a n/a
Residential 2-inch Tier One Bra Tier Two Bra Tier Three E	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	74 99,999 99,999	125 99,999 99,999	↔	106.84 \$	160.00	↔	53.16	↔	1.7032 \$ 2.1290 2.1290	2.0750 2.5938 2.5938	↔	0.3718 0.4648 0.4648
Residential 3-inch Tier One Br Tier Two Br	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	167 99,999 99,999	265 99,999 99,999	₩	213.68 \$	320.00	\$	106.32	€9	1.7032 \$ 2.1290 2.1290	2.0750 2.5938 2.5938	↔	0.3718 0.4648 0.4648
Residential 4-inch Tier One Br Tier Two Br Tier Three E	Tier One Breakover (M Gal); Tier Two Breakover (M Gal); Tier Three Breakover (M Gal);	272 99,999 99,999	420 99,999 99,999	↔	333.88 \$	500.00	\$	166.12	↔	1.7032 \$ 2.1290 2.1290	2.0750 2.5938 2.5938	↔	0.3718 0.4648 0.4648
Residential 6-inch Tier One Br Tier Two Br Tier Three E	Tier One Breakover (M Gal); Tier Two Breakover (M Gal); Tier Three Breakover (M Gal);	567 99,999 99,999	666'66 666'66	↔	\$ 22.77	1,000.00	6	332.23	⇔	1.7032 \$ 2.1290 2.1290	2.0750 2.5938 2.5938	↔	0.3718 0.4648 0.4648
Residential 8-inch Tier One Bri Tier Two Bri Tier Three E	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	92,999 99,999 99,999	1,390 99,999 99,999	€	1,068.42 \$	1,600.00	9	531.58	⇔	1.7032 \$ 2.1290 2.1290	2.0750 2.5938 2.5938	↔	0.3718 0.4648 0.4648
Residential 10-inch Tier One Bra Tier Two Bra Tier Three E	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	1,342 99,999 99,999	2,000 99,999 99,999	69	1,535.86 \$	2,300.00	\$	764.14	↔	1.7032 \$ 2.1290 2.1290	2.0750 2.5938 2.5938	₩	0.3718 0.4648 0.4648

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	Rate Block		Proposed		- 1	sic Serv	Basic Service Charge		ļ		Volume	Volumetric Charge (/M Gal)	(/M Gal)	
Class of Service		Present	Rebuttal	-	Rate	Proposed Rate - Rebut	oposed - Rebuttal	Change		Present Rate		Proposed Rate - Rebuttal		Change
Commercial 5/8 x 3/4 -inch	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	99,999	99,999	↔	13.36	€	20.00	φ •	6.64	€>	1.7480 \$	2.0750	69 ⊝ ∞ :	0.3270
Commercial 1-inch	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	25 99,999	35	↔	33.39	↔	50.00	\$ 16	16.61	₩	2.1850 2.1850	2.5938 2.0750 2.5938	ώ Ο α ↔	0.4088 0.3270 0.4088
Commercial 1.5-inch	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	n/a n/a n/a	99,999 99,999		n/a	₩	100.00		n/a	•	2.1850 n/a \$ n/a	2.5938 2.0750 2.5938	ထု ဝထ	0.4088 n/a n/a
Commercial 2-inch	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	98 966,66 966,66	125 99,999 99,999	↔	106.84	9	160.00 \$		53.16	€	1.7480 \$ 2.1850	2.5938 2.0750 2.5938 2.5938	и • Оюп	0.3270 0.4088
Commercial 3-inch	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	175 99,999 99,999	265 99,999 99,999	ь	213.68	⇔	320.00 \$	106.32	32	es	1.7480 \$ 2.1850 2.1850	2.0750 2.5938 2.5938	• •	0.3270
Commercial 4-inch	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	280 99,999 99,999	420 99,999 99,999	67	333.88	€9-	500.00 \$	166.12	12	⇔	1.7480 \$ 2.1850 2.1850	2.0750 2.5938 2.5938	6 0 Ω α α	0.3270 0.4088
Commercial 6-inch	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	575 99,999 99,999	666'66 666'66	₩	667.77	& 7,1	1,000.00 \$	332.23	23	e s 1 ← C/ C/	2.1850 2.1850 2.1850	2.5938 2.5938 2.5938	9	0.3270 0.4088 0.4088
Commercial 8-inch	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	98,999 99,999	1,390 99,999 99,999	ь	1,068.42	& 9,	1,600.00 \$	531.58	88	* 1 + 2.0	1.7480 \$ 2.1850 2.1850	2.0750 2.5938 2.5938	6	0.3270
Commercial 10-inch	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	1,342 99,999 99,999	2,000 99,999 99,999	↔	1,535.86	⇔	2,300.00 \$	764.14	4	*	1.7480 \$ 2.1850	2.0750 2.5938 2.5938	*	0.3270 0.4088 0.4088
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For Service Charges See Company-wide Service Charge Tariff at the end of this schedule

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	Rate Block	ock	Proposed -		Basi	Basic Service Charge	harge			Volume	Volumetric Charge (/M	/M Gal)	
Class of Service		Present	Rebuttal			Rate - Rebuttal	国	Change	L		Rate - Rebutta		Change
Public Fire Hydrant					n/a		n/a	n/a		n/a	n/a	m.	n/a
Coin Machine	No. Gallons / \$.25 (quarter)				n/a		n/a	n/a		n/a	n/a	m.	n/a
Construction Water (2-Inch)	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	85 99,999 99,999	125 99,999 99,999	↔	106.84 \$	160.00	\$ 00	53.16	↔	1.7480 \$ 2.1850 2.1850	2.0750 2.5938 2.5938	63	0.3270 0.4088 0.4088
Construction Water (3-Inch)	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	175 99,999 99,999	265 99,999 99,999	↔	213.68 \$	320.00	\$	106.32	6	1.7480 \$ 2.1850 2.1850	2.0750 2.5938 2.5938	↔	0.3270 0.4088 0.4088
Construction Water (4-Inch)	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	280 99,999 99,999	420 99,999 99,999	↔	333.88 \$	500.00	\$	166.12	↔	1.7480 \$ 2.1850 2.1850	2.0750 2.5938 2.5938	e s	0.3270 0.4088 0.4088
Sales for Resale (5/8-Inch)	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	666'66 666'66	666'66 666'66	⇔	13.36 \$		20.00 \$	6.64	₩	4.9040 \$ 4.9040 4.9040	2.0750 2.0750 2.0750	\$	(2.8290) (2.8290) (2.8290)
Sales for Resale (1-Inch)	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	666'66 666'66	666'66 666'66	↔	33.39 \$	50.00	\$ 00	16.61	↔	4.9040 \$ 4.9040 4.9040	2.0750 2.0750 2.0750	↔	(2.8290) (2.8290) (2.8290)
Sales for Resale (1.5-Inch)	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	n/a n/a n/a	666'66 666'66		n/a \$	100.00	0	п/а		n/a \$ n/a n/a	2.0750 2.0750 2.0750		n/a n/a n/a
Sales for Resale (2-Inch)	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	666'66 666'66	666'66 666'66	↔	106.84 \$	160.00	\$	53.16	↔	4.9040 \$ 4.9040 4.9040	2.0750 2.0750 2.0750	⊕	(2.8290) (2.8290) (2.8290)
Sales for Resale (3-Inch)	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	666'66 666'66	666'66 666'66	↔	213.68 \$	320.00	⇔ 00	106.32	69	4.9040 \$ 4.9040 4.9040	2.0750 2.0750 2.0750	↔	(2.8290) (2.8290) (2.8290)
Sales for Resale (4-Inch)	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	666'66 666'66	666'66 666'66	↔	333.88 \$	500.00	⇔ O	166.12	⇔	4.9040 \$ 4.9040 4.9040	2.0750 2.0750 2.0750	↔	(2.8290) (2.8290) (2.8290)
Sales for Resale (6-inch)	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	666'66 666'66	666'66 666'66	⇔	\$ 22.72	1,000.00	\$	332.23	↔	4.9040 \$ 4.9040 4.9040	2.0750 2.0750 2.0750	↔	(2.8290) (2.8290) (2.8290)
Sales for Resale (8-Inch)	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	666'66 666'66	666'66 666'66	↔	1,068.42 \$	1,600.00	\$ 00	531.58	9>	4.9040 \$ 4.9040 4.9040	2.0750 2.0750 2.0750	↔	(2.8290) (2.8290) (2.8290)
Sales for Resale (10-inch)	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	666'66 666'66	666'66 666'66	69	1,535.86 \$	2,300.00	\$	764.14	⇔	4.9040 \$ 4.9040	2.0750 2.0750 2.0750	€9	(2.8290) (2.8290) (2.8290)

^{**}For Service Charges See Company-wide Service Charge Tariff at the end of this schedule**

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No.	Class of Service	Rate Block	ock Present	Proposed - Rebuttal	-	Basic Present Rate R	Basic Service Charge Proposed Rate - Rebuttal	ge	je je	P. S. S.	Volu Present Rate Ra	Volumetric Charge Proposed Rate - Rebuttal		Change
	Residential 5/8 x 3/4 -inch	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	3 10 99,999	3 10 99,999	↔	21.52 \$	21.00	↔	(0.52)	€	022 775 221	4.6110 5.7638 7.2047	69	1.9088 2.3863 2.9826
	Residential 1-inch	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	10 99,999 99,999	666'66 666'66	₩	53.80 \$	52.50	↔	(1.30)	€7	3.3775 \$ 4.2221 4.2221	5.7638 7.2047 7.2047	69	2.3863 2.9826 2.9826
2 1 1 2 ¢	Residential 1.5-inch	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	n/a n/a n/a	666'66 666'66 59		n/a \$	105.00		n/a		n/a \$ n/a n/a	5.7638 7.2047 7.2047		n/a n/a n/a
5 4 25 9 7	Residential 2-inch	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	125 99,999 99,999	100 99,999 99,999	₩	172.18 \$	168.00	↔	(4.18)	Θ.	3.3775 \$ 4.2221 4.2221	5.7638 7.2047 7.2047	€	2.3863 2.9826 2.9826
5 2 2 2 2 3 3 4 3 4 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Residential 3-inch	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	325 99,999 99,999	220 99,999 99,999	⇔	344.35 \$	336.00	↔	(8.35)	€	3.3775 \$ 4.2221 4.2221	5.7638 7.2047 7.2047	⇔	2.3863 2.9826 2.9826
	Residential 4-inch	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	666'66 666'66 009	350 99,999 99,999	⇔	538.05 \$	525.00	÷	(13.05)	€	3.3775 \$ 4.2221 4.2221	5.7638 7.2047 7.2047	69	2.3863 2.9826 2.9826
	Residential 6-inch	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	925 99,999 99,999	725 99,999 99,999	₩	1,076.10 \$	1,050.00	 &	(26.10)	€	3.3775 \$ 4.2221 4.2221	5.7638 7.2047 7.2047	()	2.3863 2.9826 2.9826
	Residential 8-inch	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	1,500 99,999 99,999	1,175 99,999 99,999	↔	1,721.76 \$	1,680.00	∨>	(41.76)	⇔	3.3775 \$ 4.2221 4.2221	5.7638 7.2047 7.2047	9	2.3863 2.9826 2.9826
	Residential 10-inch	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	2,390 99,999 99,999	1,700 99,999 99,999	₩	2,475.03 \$	2,415.00	⊕	(60.03)	€	3.3775 \$ 4.2221 4.2221	5.7638 7.2047 7.2047	€9	2.3863 2.9826 2.9826
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	For Service Charges See Compar	**For Service Charges See Company-wide Service Charge Tariff at the end of this schedule	of this schedule	*										

^{**}For Service Charges See Company-wide Service Charge Tariff at the end of this schedule**

Commencial Set 344 cm Comm		<u>[</u> 4]	<u>@</u>	<u>ට</u>		<u>o</u>	Œ	⊑	_		[9]	Ξ		Ξ
Third Companione (M. Gal)		Rate Block		Proposed -		- 1	Service Charge Proposed	e d		ā		olumetric	Charge	
Time Proceedings	Class of Service			Rebuttal			ate - Rebuttal	Cha	ode	-		Rate - Re	ebuttal	Chan
Terr Three Breakover (M. Gal): 18, 98, 989 989 989 989 989 989 989 989 9	Commercial 5/8 x 3/4 -inch	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	10 99,999 99,999	10 99,999 99,999	↔		32.05	↔	10.53	↔				
The Yore Breakover (M Gal): rise 99,999 rise 172.18 \$ 190.24 in a 1717.5	Commercial 1-inch	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	40 99,999 99,999	666'66 666'66	€9		80.12	⇔	26.32	⇔				
Tier One Breakover (M Gai): 99999 99999 172.18 \$ 256.38 \$ 64.21 \$ 3.3775 \$ 5.7500 \$ 7.1875	Commercial 1.5-inch	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	n/a n/a n/a	666'66 66'66			160.24		п/а				7500 7.1875 7.1875	
Ther One Breakover (M Gal): 993999 993999 993999 993999 993999 993999 993999 993999 993999 993999 9939	Commercial 2-inch	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	125 99,999 99,999	100 99,999 99,999	⇔		256.39	↔	84.21	↔				
Tier One Breakover (M Gal): 99 99 99 99 99 99 99 99 99 99 99 99 99	Commercial 3-inch	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	325 99,999 99,999	220 99,999 99,999	↔		512.77		168.42	∨				
Tier One Breakover (M Gal): 9959 9999 99999 99999 99999 99999 99999 9999	Commercial 4-inch	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	500 99,999 99,999	320 66,999 99,999	₩.		801.21		263.16	⇔				
Tier One Breakover (M Gal): 1,500 1,175 \$ 1,721.76 \$ 2,563.86 \$ 842.10 \$ 5,33775 \$ 5,7500 \$ 7187 Tier Two Breakover (M Gal): 99,999 99,999 1700 \$ 2,475.03 \$ 3,685.55 \$ 1,210.52 \$ 3,3775 \$ 5,7500 \$ 7,1875 Tier Two Breakover (M Gal): 99,999 99,999 99,999 99,999 99,999 99,999 1700 Tier Twe Breakover (M Gal): 99,999 99,	Commercial 6-inch	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	925 99,999 99,999	725 99,999 99,999	↔		1,602.42		526.32	⇔				
Tier One Breakover (M Gal): 2,390 1,700 \$ 2,475.03 \$ 3,685.55 \$ 1,210.52 \$ 3,3775 \$ 5,7500 \$ Tier Two Breakover (M Gal): 99,999 99,999 17.1875	Commercial 8-inch	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	1,500 99,999 99,999	1,175 99,999 99,999	↔		2,563.86		342.10	\$				
(Continued)	Commercial 10-inch	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	2,390 99,999 99,999	1,700 99,999 99,999	⇔		3,685.55		210.52	₩				
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Figure 1985 Figure 1985		[A]	[8]	[5]		[0]	<u>(E)</u>	Ē.		[9]		Ξ	<u>(i)</u>
The Continue Distance (M. Gal)		Rate Blr		Proposed -			Service Chan Proposed	ge	1	Preg		tric Charge	
There Therefore (M. Gal), 199,9999 919,999 151,210 151 151 151 151 151 151 151 151 151 1	Class of Service		1	Rebuttal	-		ate - Rebuttal	Char	ge	Rate		Rebuttal	Change
Tier One Breakover (M Gal). Tier One Breakov	Industrial 5/8 x 3/4 -inch	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	666'66 666'66 666'66	666'66 666'66	⇔		32.05		10.53				(1.3775) (1.3775) (1.3775)
Tier Troe Braidwore (M. dai); 18 99 9999 1 19 19 19 19 19 19 19 19 19 19	Industriat 1-inch	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	666'66 666'66	666'66 666'66	↔		80.12		26.32				(1.3775) (1.3775) (1.3775)
Tury Turb Breaklover (M Gal); 9999 9999 99999 172 172 18 5 26539 18 942 18 23778 2 20000 17 or Turbe Breaklover (M Gal); 9999 9999 99999 18 29999 1	Industrial 1.5-inch	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	n/a n/a n/a	666'66 666'66			160.24		n/a			2.0000 2.0000 2.0000	n/a n/a n/a
Therrone Breakover (M Gal): 999999 999999 999999 999999 9999999 9999	Industrial 2-inch	Tier One Breakover (M Gal); Tier Two Breakover (M Gal); Tier Three Breakover (M Gal);	666'66 666'66	666'66 666'66	69		256,39		84.21				(1.3775) (1.3775) (1.3775)
Tier One Breakover (M Gai): 99,999 99,999 1,076,10 \$ 1,602.42 \$ 526.32 \$ 33775 \$ 2,0000 \$ 3775	Industrial 3-inch	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	666'66 666'66	666'66 666'66 666'66	↔		512.77		68.42				(1.3775) (1.3775) (1.3775)
Tier One Breakover (M Gal): 99,999 99,999 1,721,76 \$ 1,602.42 \$ 526.32 \$ 33775 \$ 2,0000 \$ 31775 \$ 2,0000 \$ 31775 \$ 2,0000 \$ 31775 \$ 2,0000 \$ 31775 \$ 2,0000 \$ 31775 \$ 2,0000 \$ 31775 \$ 2,0000 \$ 31775 \$ 2,0000 \$ 31775 \$ 2,0000 \$ 31775 \$ 2,0000 \$ 31775 \$ 31775 \$ 2,0000 \$ 31775 \$ 31	Industrial 4-inch	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	666'66 666'66	666'66 666'66	€9		801.21		63.16				(1.3775) (1.3775) (1.3775)
Tier One Breakover (M Gal): 99,999 99,999 \$ 1,721.76 \$ 2,563.86 \$ 842.10 \$ \$ 33775 \$ 2,0000 \$ Tier Two Breakover (M Gal): 99,999 99,999 \$ 1,721.76 \$ 2,663.86 \$ 842.10 \$ \$ 3,3775 \$ 2,0000 \$ 3,3775 \$ 2,0000 \$ 1 Tier Three Breakover (M Gal): 99,999 99,999 \$ 2,475.03 \$ 3,685.55 \$ 1,210.52 \$ 3,3775 \$ 2,0000 \$ 1 Tier Three Breakover (M Gal): 99,999 99,999 99,999 99,999	Industrial 6-inch	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	666'66 666'66	666'66 666'66	€9		1,602.42		26.32				(1.3775) (1.3775) (1.3775)
Tier One Breakover (M Gal): 99,999 \$ 2,475.03 \$ 3,685.55 \$ 1,210.52 \$ 3,3775 \$ 2,0000 \$ 3,775 Tier Two Breakover (M Gal): 99,999 99,999 99,999 Tier Two Breakover (M Gal): 99,999	Industrial 8-inch	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	666'66 666'66	666'66 666'66	↔		2,563.86		42.10				(1.3775) (1.3775) (1.3775)
All meter connection sizes: \$ 23.91 \$ 27.00 \$ 3.09 n/a	Industrial 10-inch	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	666'66 666'66	666'66 666'66	∨		3,685.55		10.52				(1.3775) (1.3775) (1.3775)
(Continued)	Private Fire Service	All meter connection sizes:			↔		27.00	69	3.09		n/a	n/a	
(Continued)													
				5	Continued;								

Recap Schedules:

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	Rate Block	¥	Proposed -		Basi	Basic Service Charge	Charge		١	Vo	Volumetric Charge	arge	
Class of Service		Present	Rebuttal			Rate - Rebutta	ıtta	Change	_		Rate - Rebutta		Change
Public Fire Hydrant					n/a		n/a	n/a		n/a	_	n/a	
Coin Machine	No. Gallons / \$.25 (quarter)				n/a		n/a	п/а		n/a	_	n/a	
Construction Water (2-Inch)	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	125 99,999 99,999	100 99,999 99,999	↔	172.18 \$		256.39 \$	84.21	↔	3.3894 4 4.2370 4.2370	\$ 5.7500 7.1875 7.1875	00 \$ 75 75	2.3606 2.9505 2.9505
Construction Water (3-Inch)	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	325 99,999 99,999	220 99,999 99,999	⇔	344.35 \$		512.77 \$	168.42	⇔	3.3894 1 4.2370 4.2370	\$ 5.7500 7.1875 7.1875	00 \$ 75 75	2.3606 2.9505 2.9505
Construction Water (4-Inch)	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	666'66 666'66	350 99,999 99,999	↔	538.05 \$	801.21	.21	263.16	69	3.3894 4 .2370 4.2370	\$ 5.7500 7.1875 7.1875	00 \$ 75 75	2.3606 2.9505 2.9505
Sales for Resale (5/8-Inch)	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	666'66 666'66	666'66 666'66	€7	21.52 \$		32.05 \$	10.53	↔	3.3775 3.3775 3.3775	\$ 5.7500 5.7500 5.7500	\$	2.3725 2.3725 2.3725
Sales for Resale (1-Inch)	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	666'66 666'66	666'66 666'66	€7	53.80 \$		80.12 \$	26.32	↔	3.3775 3.3775 3.3775	\$ 5.7500 5.7500 5.7500	\$	2.3725 2.3725 2.3725
Sales for Resale (1.5-Inch)	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	n/a n/a n/a	666'66 666'66		n/a \$	160.24	.24	n/a		n/a n/a n/a	\$ 5.7500 5.7500 5.7500	888	
Sales for Resate (2-Inch)	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	666'66 666'66	666'66 666'66 666'66	69	172.18 \$	256.39	\$ 6E.	84.21	9	3.3775 \$ 3.3775 3.3775	\$ 5.7500 5.7500 5.7500	⇔ 000	2.3725 2.3725 2.3725
Sales for Resale (3-Inch)	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	666'66 666'66	666'66 666'66	↔	344.35 \$	512.77	\$ 22.	168.42	⇔	3.3775 \$ 3.3775 3.3775	\$ 5.7500 5.7500 5.7500	\$	2.3725 2.3725 2.3725
Sales for Resale (4-Inch)	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	666'66 666'66	666'66 666'66	↔	538.05 \$	801.21	.21	263.16	↔	3.3775 \$ 3.3775 3.3775	5.7500 5.7500 5.7500	⇔ 888	2.3725 2.3725 2.3725
Sales for Resale (6-inch)	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	666'66 666'66	666'66 666'66	↔	1,076.10 \$	1,602.42	.42 \$	526.32	↔	3.3775 \$ 3.3775 3.3775	5.7500 5.7500 5.7500	 9 0 0	2.3725 2.3725 2.3725
Sales for Resale (8-Inch)	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	666'66 666'66	666'66 666'66	↔	1,721.76 \$	2,563.86	\$ 98	842.10	⇔	3.3775 \$ 3.3775 3.3775	5.7500 5.7500 5.7500	\$ 888	2.3725 2.3725 2.3725
Sales for Resale (10-Inch)	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	666'66 666'66	666'66 666'66	₩	2,475.03 \$	3,685.55	.55 \$	1,210.52	↔	3.3775 \$ 3.3775 3.3775	5.7500 5.7500 5.7500	 888	2.3725 2.3725 2.3725

^{**}For Service Charges See Company-wide Service Charge Tariff at the end of this schedule**

⁽Continued)

Commercial 61 x 34 x 10 x 10 x 10 x 10 x 10 x 10 x 10 x 1		<u>A</u>	<u>@</u>	<u></u>		ē	Ξ		Ē		ලි	Ξ	Ξ
Time Problement (M. Gal), Continued		Rate Block		Proposed -		- 1	ic Service Propose	Charge		۵	Volumetri resent	c Charge (/M proposed	Gal)
Time Processioner (M Gai), Gainer Resolution (M	Class of Service		Present	Rebuttal			Rate - Reb		Change			e - Rebuttal	Change
Tet Three Breakover (M Gal); 69 989 99 989 99 99 99 99 99 99 99 99 99	Commercial 5/8 x 3/4 -inch	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	10 99,999 99,999	10 99,999 99,999	↔				12.22	↔		5.7500 7.1875 7.1875	
The Tope Breakover (M Gal); ria 99,999	Commercial 1-inch	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	666'66 666'66 08	666'66 666'66	69				30.54	↔		5.7500 7.1875 7.1875	
Tier One Breaktover (M Gail): 99 99 99 99 99 99 99 99 99 99 99 99 99	Commercial 1.5-inch	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	∩/a ∩/a ∩/a	666'66 666'66 9				1.24	n/a			5.7500 7.1875 7.1875	
Ther One Breakover (M Gal): 99399 99399 99399 718.77 \$ 195.44 \$ 5.1151 \$ 5.7500 \$ 7.1875	Commercial 2-inch	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	666'66 666'66 06	100 99,999 99,999	€9				97.72	↔		5.7500 7.1875 7.1875	
Tier One Breakover (M Gal): 999 99 99 99 99 99 99 99 99 99 99 99 9	Commercial 3-inch	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	210 99,999 99,999	220 99,999 99,999	€9				195.44	€		5.7500 7.1875 7.1875	
Tier One Breakover (M Gal): 99,999 99,999 1,566.65 \$ 1,602.42 \$ 610.76 \$ 5,1151 \$ 5,7500 \$ 7.875 Tier Three Breakover (M Gal): 99,999 99,999 99,999 1,566.65 \$ 2,563.86 \$ 977.21 \$ 5,1151 \$ 5,7500 \$ 7.875 Tier Three Breakover (M Gal): 99,999 99,999 99,999 1,566.65 \$ 2,280.81 \$ 3,685.55 \$ 1,404.74 \$ 5,1151 \$ 5,7500 \$ 7.875 Tier Three Breakover (M Gal): 99,999 99,999 99,999 99,999 99,999 99,999 99,999 99,999 99,999 10,000 1	Commercial 4-inch	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	340 99,999 99,999	350 66,999 99,999	↔				305.38	↔		5.7500 7.1875 7.1875	
Tier One Breakover (M Gai): 1,1000 1,175 \$ 1,586.65 \$ 2,563.86 \$ 977.21 \$ 5,1151 \$ 5,7500 \$ 8 77.21 Tier Dwo Breakover (M Gai): 99,999 99,959 Tier Three Breakover (M Gai): 1541 1,700 \$ 2,280.81 \$ 3,685.55 \$ 1,404.74 \$ 5,1151 \$ 5,7500 \$ 7.1875 Tier Three Breakover (M Gai): 99,999 99,999 99,999 7.1875 (Gontinued)	Commercial 6-inch	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	725 99,999 99,999	725 99,999 99,999	↔				610.76	₩		5.7500 7.1875 7.1875	
Tier One Breakover (M Gal): 1,541 1,700 \$ 2,280.81 \$ 3,685.55 \$ 1,404.74 \$ 5,1151 \$ 5,7500 \$ Tier Two Breakover (M Gal): 99,999 99,999 Tier Three Breakover (M Gal): 99,999 99,999 Tier Three Breakover (M Gal): 99,999 Tier Three Breakover (M Gal): 7,1875 G.3938 7,1875 (Continued)	Commercial 8-inch	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	1,000 99,999 99,999	1,175 99,959 99,999	↔				977.21	↔		5.7500 7.1875 7.1875	
(Continued)	Commercial 10-inch	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	1,541 99,999 99,999	1,700 99,999 99,999	⇔				1,404.74	↔		5.7500 7.1875 7.1875	
(Continued)													
				9)	Continued								

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	Rate Block				Basic 8	Basic Service Charge	9			Volumetr	Volumetric Charge (/M Gal)	Σ
Class of Service		Proposed - Present Rebuttal	ttal	Present Rate	Rat	Proposed Rate - Rebuttal	Change	m	Pres Ra	Present Rate Ra	Proposed Rate - Rebutta	=1
Industrial 5/8 x 3/4 -inch	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	56 666 66 666 66	666'66 666'66 666'66	\$ 19.83	\$	32.05	₩	12.22	69	5.1151 \$ 5.1151 5.1151	2.0000 2.0000 2.0000	-
Industrial 1-inch	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	56 666 66 666 66	666'66 66'66 66'66	\$ 49.58	\$	80.12	ფ	30.54	<i>↔</i>	5.1151 \$ 5.1151 5.1151	2.0000	
Industrial 1.5-inch	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	n/a 99 n/a 99 n/a 99	666'66 666'66	C,	n/a \$	160.24		n/a		n/a \$ n/a n/a	2.0000 2.0000 2.0000	
Industrial 2-inch	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	36 666'66 666'66 666'66	666'66 666'66 666'66	\$ 158.67	\$ 25	256.39	69	97.72	6	5.1151 \$ 5.1151 5.1151	2.0000 2.0000 2.0000	
Industrial 3-inch	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	36 666'66 666'66 666'66	666'66 666'66 666'66	\$ 317.33	8	512.77	æ 199	195.44	69	5.1151 \$ 5.1151 5.1151	2.0000 2.0000 2.0000	
Industrial 4-inch	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	56 666'66 666'66	666'66 666'66	\$ 495.83	£	801.21	306	305.38	⊕ •	5.1151 \$ 5.1151 5.1151	2.0000 2.0000 2.0000	
Industrial 6-inch	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	66 666'66 666'66 666'66	666'66 66'66	\$ 991.66	\$	1,602.42	\$ 610	610.76	<i>⇔</i>	5.1151 \$ 5.1151 5.1151	2.0000 2.0000 2.0000	
Industrial 8-inch	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	66 666'66 666'66	666'66 666'66	\$ 1,586.65	ۍ د	2,563.86	\$ 977.21	.21	es es	5.1151 \$ 5.1151 5.1151	2.0000 2.0000 2.0000	
Industrial 10-inch	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	66 666'66 666'66	666'66 666'66	\$ 2,280.81	2. ↔	3,685,55	\$ 1,404.74	.74	es 60 00 00	5.1151 \$ 5.1151 5.1151	2.0000 2.0000 2.0000	
Private Fire Service	All meter connection sizes:			\$ 23.61	7 ↔	27.00	es es	3.39		n/a	n/a	
			(Continued)	(pen)								
For Service Charges See Comp	**For Service Charges See Company-wide Service Charge Tariff at the end of this schedule	of this schedule**										

ARIZONA WATER COMPANY Test Year Ended December 31, 2010 Changes in Representative Rate Schedules

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Volumetric Charge (/M Gal)

Present Rate 0.6349 0.7937 0.7937

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49 S 69 97.72 12.22 97.72 610.76 <u>/</u>a ş 4 30.54 n/a 195.44 38 305.38 977.21 1,404.74 195. 305. E Basic Service Charge Proposed Rate - Rebuttal s ю 69 ₩ 69 ↔ ø 69 4 ↔ 256.39 80.12 512.77 32.05 801.21 160.24 512.77 ďa Va n/a 3,685.55 7 1,602.42 2,563.86 256. 801 回 Oracle 4 G ø () υ 69 69 ω 49 () 69 158.67 317.33 495.83 19.83 49.58 <u>/</u>а ď ďa 158.67 317.33 495.83 99 1,586.65 2,280.81 Present 991 ē ь ₩ 4 ↔ s m ω 4 100 99,999 99,999 220 99,999 99,999 350 99,999 99,999 666'66 666'66 666'66 666'66 66'66 666'66 666'66 666,66 66,666 66,666 666,66 666,66 666'66 666'66 99,999 99,999 99,999 666'66 666'66 666'66 666'66 Proposed -Rebuttal $\overline{\mathbb{C}}$ 7 a 2 a 666'66 210 99,999 99,999 340 99,999 99,999 666'66 666'66 666'66 666'66 666'66 666'66 666'66 666'66 666'66 666'66 666,66 66,66 66,66 8 666'66 666'66 666'66 666,66 66,666 66,666 8 Rate Block Tier Two Breakover (M Gal): Tier Three Breakover (M Gal): Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal): Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal): Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal): Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal): Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal): Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal): Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal): Tier Three Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal): Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier One Breakover (M Gal): Tier One Breakover (M Gal): Fier One Breakover (M Gal): No. Gallons / \$.25 (quarter) ₹ Construction Water (2-Inch) Construction Water (3-Inch) Construction Water (4-Inch) Sales for Resale (5/8-Inch) Sales for Resale (1.5-Inch) Resale (10-Inch) Sales for Resale (1-Inch) Sales for Resale (2-Inch) Sales for Resale (3-Inch) Sales for Resale (4-Inch) Sales for Resale (6-Inch) Sales for Resale (8-Inch) Public Fire Hydrant Coin Machine Class of Service Sales for

For Service Charges See Company-wide Service Charge Tariff at the end of this schedule

Tier Three Breakover (M Gal)

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	Rate Block	ock	Proposed -	اً	Bas	Basic Service Charge	harge		۵	Volumetri	Volumetric Charge (/M Gal)	Gal)
Class of Service		Present	Rebuttal	-		Rate - Rebuttal		<u>Change</u>	-		Rate - Rebuttal	Change
Residential 5/8 x 3/4 -inch	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	666'66 666'66	3 10 99,999	₩	15.00	\$ 21	21.00 \$	00.9	↔	4.1000 \$ 4.1000 4.1000	4.6110 5.7638 7.2047	↔
Residential 1-inch	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	666'66 666'66	666'66 666'66 08	69	37.50	\$ 52	\$ 2.50	15.00	€	4.1000 4.1000 4.1000	5.7638 7.2047 7.2047	↔
Residential 1.5-inch	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	n/a n/a n/a	666'66 666'66 9		n/a \$	\$ 105.00	00	n/a		n/a \$ n/a n/a	5.7638 7.2047 7.2047	
Residential 2-inch	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	666'66 666'66	100 99,999 99,999	↔	100.00	\$ 168.00	\$	68.00	⇔	4.1000 \$ 4.1000 4.1000	5.7638 7.2047 7.2047	⇔
Residential 3-inch	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	666'66 666'66	220 99,999 99,999	↔	150.00	\$ 336.00	\$	186.00	↔	4.1000 4.1000 4.1000	5.7638 7.2047 7.2047	↔
Residential 4-inch	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	666'66 666'66	350 99,999 99,999	↔	200.00	\$ 525.00	\$ 00	325.00	↔	4.1000 4.1000 4.1000	5.7638 7.2047 7.2047	↔
Residential 6-inch	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	666'66 666'66	725 99,999 99,999	49	475.00	\$ 1,050.00	\$	675.00	₩	4.1000 4.1000 4.1000	5.7638 7.2047 7.2047	↔
Residential 8-inch	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	666'66 666'66	1,175 99,999 99,999	€9	600.00	\$ 1,680.00	\$	1,080.00	69	4.1000 \$ 4.1000	5.7638 7.2047 7.2047	↔
Residential 10-inch	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	666 66 666 66	1,700 99,999 99,999	69	\$ 00.00	2,415.00	\$	1,765.00	⇔	4.1000 \$ 4.1000	5.7638 7.2047 7.2047	69
			**	(Continued)								

ARIZONA WATER COMPANY
Test Year Ended December 31, 2010
Changes in Representative Rate Schedules

[A] Rate Block	<u>6</u>	[0]		<u>6</u>		[D] (E)		[1]		[9]	Ξ		Ξ
ואמה מוסיע	Present	Proposed - Rebuttal		Present Rate	Sasic Ser Pro Rate -	Basic Service Charge Proposed Rate - Rebuttal	i	Change		Volur Present Rate	Volumetric Charge (/M Gal) It Proposed Rate Behuttal	rge (/M C	ial)
Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	666'66 666'66	10 99,999 99,999	₩	15.00		32.05	↔	17.05	₩	4.1000	8		\$ 1.6500 3.0875
Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	666'66 666'66	666'66 666'66	↔	37.50	€	80.12	⇔	42.62	€>	0001.4			3.0875 3.0875 3.0875
Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	n/a n/a n/a	666'66 666'66		n/a	69	160.24		n/a			* 	5.7500 7.1875 7.1875	5.0675 n/a n/a
Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	666'66 666'66	100 99,999 99,999	↔	100.00	↔	256.39	∨	156.39	↔	4.1000	8 6.7.5	5.7500 \$ 7.1875	1. 8. 8. 9. 9. 9.
Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	666'66 666'66	220 99,999 99,999	↔	150.00	()	512.77	€9	362.77	€9	4.1000	\$	5.7500 \$ 7.1875 7.1875	
Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	666'66 666'66	350 66,989 99,989	€9	200.00	↔	801.21	↔	601.21	↔	4.1000 4.1000 4.1000	\$	5.7500 \$ 7.1875 7.1875	
Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	666'66 666'66	725 99,999 99,999	49	475.00	↔	1,602.42	↔	1,127.42	↔	4.1000 4.1000 4.1000	8.7.7.5	5.7500 \$ 7.1875 7.1875	
Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	666'66 666'66	1,175 99,999 99,999	69	00.009	€	2,563.86		1,963.86	↔	4.1000 4.1000 4.1000	\$ 5.7 7.7	5.7500 \$ 7.1875 7.1875	
Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	666'66 666'66	1,700 99,999 99,999	↔	650.00	es •••	3,685.55	ന് ⇔	3,035.55	₩	4.1000	\$ 5.7	5.7500 \$ 7.1875 7.1875	1.6500 3.0875 3.0875

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(Continued)

For Service Charges See Company-wide Service Charge Tariff at the end of this schedule

Test Year Ended December 31, 2010 Changes in Representative Rate Schedules ARIZONA WATER COMPANY

(2.1000) (2.1000) (2.1000) (2.1000) (2.1000) (2.1000) (2.1000) (2.1000) (2.1000) (2.1000) (2.1000) (2.1000) (2.1000) (2.1000) (2.1000)(2.1000) (2.1000) (2.1000) n/a n/a n/a (2.1000) (2.1000) (2.1000) (2.1000) (2.1000) (2.1000) n/a Volumetric Charge (/M Gal) ₩ 69 G 49 Rate - Rebuttal 2.0000 n/a 王 69 6 69 69 89 4.1000 4.1000 4.1000 4.1000 n/a n/a n/a 4.1000 4.1000 4.1000 4.1000 4.1000 4.1000 4.1000 4.1000 4.1000 4.1000 4.1000 4.1000 4.1000 4.1000 4.1000 4.1000 4.1000 n/a Present Rate 9 49 69 ₩ ь 17.05 42.62 n/a 156.39 362.77 601.21 1,127.42 1,963.86 3,035.55 22.00 Change (F) ↔ s ь 69 Basic Service Charge ₩ છ 32.05 80.12 Rate - Rebuttal 256.39 160.24 512.77 801.21 1,602,42 2,563.86 3,685.55 27.00 Proposed SaddleBrooke Ranch [D] [E] 69 4 ↔ ₩ ₩ ₩ 69 ↔ 69 15.00 100.00 20 ∩/a 150.00 200.00 475.00 600.00 650.00 5.00 37 Present Rate 49 69 υ ક્ક 43 69 666,86 66,98 89,899 666'66 666'66 666'66 666'66 666'66 66'66 66'66 666'66 666'66 666'66 66'66 66'66 666'66 666'66 666'66 666'66 666'66 666'66 Rebuttal Proposed ि 666'66 666'66 666'66 666'66 666'66 666'66 666'66 666'66 666'66 666'66 n/a n/a n/a 666'66 666'66 666,66 666'66 666'66 666'66 亶 Rate Block Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal): Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal): Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal): Fier Three Breakover (M Gal) Tier Two Breakover (M Gal): Tier Three Breakover (M Gal): Tier Three Breakover (M Gal): Tier Three Breakover (M Gal): Tier Three Breakover (M Gal) Tier One Breakover (M Gat): Tier Two Breakover (M Gal): Tier One Breakover (M Gal): Tier Two Breakover (M Gal): lier Three Breakover (M Gal) Tier One Breakover (M Gal): Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier One Breakover (M Gal): Tier Two Breakover (M Gal): All meter connection sizes; ₹ Industrial 5/8 x 3/4 -inch Private Fire Service Industrial 1.5-inch Class of Service Industrial 1-inch Industrial 10-inch ndustrial 2-inch Industrial 3-inch Industrial 4-inch Industrial 6-inch Industrial 8-inch

(Continued)

For Service Charges See Company-wide Service Charge Tariff at the end of this schedule

ARIZONA WATER COMPANY Test Year Ended December 31, 2010 Changes in Representative Rate Schedules

Class of Service	Rate Block	Present	Proposed -		Bas Present Rate	Basic Service Charge Proposed Rate - Rebuttal	Charge 3 uttal	Change		Volur Present Rate	Volumetric Charge (/M t Proposed Rate - Rebuttal	/M Gal)
Public Fire Hydrant					n/a		n/a	n/a		n/a	n/a	
Coin Machine	No. Gallons / \$.25 (quarter)				n/a		n/a	n/a		n/a	n/a	
Construction Water (2-Inch)	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	666'66 666'66	100 99,999 99,999	↔	100.00	\$ 256.39	9 6€	156.39	€	4.1000 4.1000 4.1000	\$ 5.7500 7.1875 7.1875	69
Construction Water (3-Inch)	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	666'66 666'66	220 99,999 99,999	↔	150.00	\$ 512.77	\$ 12.	362.77	↔	4.1000 4.1000 4.1000	\$ 5.7500 7.1875 7.1875	69
Construction Water (4-Inch)	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	666'66 666'66	350 666'66 66'66	↔	200.00	\$ 801.21	21 \$	601.21	↔	4.1000 4.1000 4.1000	\$ 5.7500 7.1875 7.1875	↔
Sales for Resale (5/8-Inch)	Tier One Breakover (M Gal); Tier Two Breakover (M Gal); Tier Three Breakover (M Gal);	666'66 666'66	666'66 666'66	↔	15.00	\$ 32	32.05 \$	17.05	↔	4.1000 4.1000 4.1000	\$ 5.7500 5.7500 5.7500	↔
Sales for Resale (1-Inch)	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	666'66 666'66 666'66	666'66 666'66	<i>9</i>	37.50	80	80.12 \$	42.62	↔	4.1000 4.1000 4.1000	\$ 5.7500 \$.7500 5.7500	↔
Sales for Resale (1.5-Inch)	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	n/a n/a n/a	666'66 666'66		n/a	\$ 160.24	24	n/a		n/a n/a n/a	\$ 5.7500 5.7500 5.7500	
Sales for Resale (2-Inch)	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	666'66 666'66	666'66 666'66	67	100.00	256.39	\$ 66	156.39	9	4.1000 4.1000 4.1000	\$ 5.7500 5.7500 5.7500	€
Sales for Resale (3-Inch)	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	666'66 666'66	666'66 666'66	69	150.00 \$	512.77	\$ 22	362.77	₩	4.1000	\$ 5.7500 5.7500 5.7500	⇔
Sales for Resale (4-Inch)	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	666'66 666'66	666'66 666'66	69	200.00	801.21	21 \$	601.21	↔	4.1000 4.1000 4.1000	\$ 5.7500 5.7500 5.7500	↔
Sales for Resale (6-Inch)	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	666'66 666'66	666'66 666'66	₩	475.00 \$	1,602.42	\$	1,127.42	€9	4.1000 4.1000 4.1000	\$ 5.7500 5.7500 5.7500	↔
Sales for Resale (8-Inch)	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	666'66 666'66	666'66 666'66	↔	\$ 00.009	2,563.86	\$ 92	1,963.86	↔	4.1000 4.1000 4.1000	\$ 5.7500 5.7500 5.7500	69
Sales for Resale (10-Inch)	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal);	666'66 666'66	666,66 666,66	49	\$ 00.099	3,685.55	\$	3,035.55	↔	4.1000	\$ 5.7500	↔

For Service Charges See Company-wide Service Charge Tariff at the end of this schedule

Particular Par		[A]	[8]	[5]		Winkelman [D]	fman [E]		Ē		<u>[5]</u>	王	F	=	
Territoria Bessioner (M. Cal.) Property			د			Ċ		į							
4 4101 Tier Pos Benazover (M. Gal); 10 10 10 10 10 10 10 10 10 10 10 10 10	Class of Service		Present	Proposed - Rebuttal	-		Proposi Rate - Ret	ed outtal	Change		Present Rate	Prop	osed Rebuttal	Change	O)
Ther Those Breakboover (M Gai): 99 999 99 999 99 99 99 99 99 99 99 99	Residential 5/8 x 3/4 -inch	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	3 10 99,999	3 10 99,999	⇔				4.16		1.4458 1.8074 2.2595				311 638 295
The One Breakover (M Call)	Residential 1-inch	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	10 99,999 99,999	666'66 666'66	↔				10.40		1.8074 2.2595 2.2595	⇔			638 295 295
Ther One Brackover (M Gal): 99,999 99,999 14167 18 162 0 18 18074 8 19074 8 19090 1 1817 Three Brackover (M Gal): 99,999 99,999 99,999 1 1817 Three Brackover (M Gal): 99,999 99,999 1 1817 Three Brackover (M Gal): 99,999 99,999 99,999 1 1817 Three Brackover (M Gal): 99,999 99,999 99,999 1 1817 Three Brackover (M Gal): 99,999 99,999 99,999 99,999 1 1817 Three Brackover (M Gal): 99,999 99,999 99,999 1 1817 Three Brackover (M Gal): 99,999 99,999 99,999 1 1817 Three Brackover (M Gal): 99,999 99,999 99,999 1 1817 Three Brackover (M Gal): 99,999 99,	Residential 1.5-inch	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	n/a n/a n/a	666'66 66'66				15.00	n/e		n/a n/a n/a	49	2.4712 3.0890 3.0890		n/a n/a n/a
Ther One Breakover (M Gai): 9356 95,999 96,9	Residential 2-inch	Tier One Breakover (M Gal); Tier Two Breakover (M Gal); Tier Three Breakover (M Gal);	125 99,999 99,999	100 99,999 99,999	↔				33.27		1.8074 2.2595 2.2595	↔			638 295 295
Tier One Breakover (M Gal): 99,999 99,999 1742 06 \$ 371,03 \$ 475,00 \$ 103.97 \$ 1,8074 \$ 2,4712 \$ 3,0890	Residential 3-inch	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	325 99,999 99,999	220 99,999 99,999	↔				66.54		1.8074 2.2595 2.2595	⇔			638 295 295
Tier One Breakover (M Gal): 995 999 99,999 1,187.30 \$ 1,187.30 \$ 1,520.00 \$ 207.94 \$ 1,8074 \$ 2,4712 \$ 3,0890 Tier Three Breakover (M Gal): 99,999 99,999 1,187.30 \$ 1,520.00 \$ 392.70 \$ 1,8074 \$ 2,2896 Tier Three Breakover (M Gal): 99,999 99,999 99,999 1,1700 \$ 1,700 \$ 1,700 \$ 1,700 \$ 2,185.00 \$ 302.70 \$ 3,0890 Tier Two Breakover (M Gal): 2,647 1,700 \$ 1,700 \$ 1,700 \$ 4,78.26 \$ 3,0890 Tier Two Breakover (M Gal): 99,999 99,999 99,999 Tier Twe Breakover (M Gal): 99,999 99,999 99,999 99,999 99,999 99,999	Residential 4-inch	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	666'66 666'66	666'66 666'66 052	↔				103.97		1.8074 2.2595 2.2595	↔			638 295 295
Tier One Breakover (M Gai): 1,500 1,175 \$ 1,187,30 \$ 1,520,00 \$ 332.70 \$ 1,8074 \$ 2,4712 \$ 2,595	Residential 6-inch	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	925 99,999 99,999	725 99,999 99,999	↔				207.94		1.8074 2.2595 2.2595	€ >			638 295 295
Tier One Breakover (M Gal): 2.647 1,700 \$ 1,706.74 \$ 2,185.00 \$ 478.26 \$ 1,8074 \$ 2,4712 \$ 3.0890 Tier Two Breakover (M Gal): 99,999 99,999 Tier Three Breakover (M Gal): 99,999 99,999 Tier Three Breakover (M Gal): 99,999 Tier Three Breakover (M Gal): 99,999 Tier Three Breakover (M Gal): 3.0890 Continued)	Residential 8-inch	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	1,500 99,999 99,999	1,175 99,999 99,999	⇔				332.70		1.8074 2.2595 2.2595	↔			638 295 295
(Continued)	Residential 10-inch	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	2,647 99,999 99,999	1,700 99,999 99,999	↔				478.26		1.8074 2.2595 2.2595	v			638 295 295
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					Continued	_									

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	Rate Block	Š			ı	Basic Service Charge	narge			Volur	Volumetric Charge (/M Gal)	rge (/M G	al.)
Class of Service		Present	Proposed - Rebuttal	u.	Present Rate	Proposed Rate - Rebuttal		Change	D.	Present Rate	Proposed Rate - Rebuttal	ed buttal	Change
Commercial 5/8 × 3/4 -inch	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	10 99,999 99,999	10 99,999 99,999	↔	14.84	\$ 19.00	↔ 0	4.16	↔	1.8074 2.2595 2.2595	6	2.4712 \$ 3.0890 3.0890	0.6638 0.8295 0.8295
Commercial 1-inch	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	40 99,999 99,999	666'66 666'66	↔	37.10	\$ 47.50	↔ 03	10.40	↔	1.8074 2.2595 2.2595	ର ୧୯ ୯ ୯	2.4712 \$ 3.0890 3.0890	
Commercial 1.5-inch	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	n/a n/a n/a	65 68,999 68,999		n/a	\$ 95.00	0	n/a		n/a n/a n/a	es ପାର୍ଷ	2.4712 3.0890 3.0890	n/a n/a n/a
Commercial 2-inch	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	125 99,999 99,999	100 99,999 99,999	↔	118.73	\$ 152.00	↔ Q	33.27	↔	1.8074 2.2595 2.2595	e9 ⊘inini	2.4712 \$ 3.0890 3.0890	0.6638 0.8295 0.8295
Commercial 3-inch	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	325 99,999 99,999	220 99,999 99,999	↔	237.46	\$ 304.00	↔ ©	66.54	↔	1.8074 2.2595 2.2595	o'n'n' ⇔	2.4712 \$ 3.0890 3.0890	0.6638 0.8295 0.8295
Commercial 4-inch	Tier One Breakover (M Gai): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	99,999 99,999	350 99,999 99,999	↔	371.03	\$ 475.00	\$	103.97	₩	1.8074 2.2595 2.2595	ci ന് ന് ക	2.4712 \$ 3.0890 3.0890	0.6638 0.8295 0.8295
Commercial 6-inch	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	925 99,999 99,999	725 99,999 99,999	θ	742.06	\$ 950.00	↔	207.94	€	1.8074 2.2595 2.2595	⇔ ପ୍ରଧ୍ନ	2.4712 \$ 3.0890 3.0890	0.6638 0.8295 0.8295
Commercial 8-inch	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	1,500 99,999 99,999	1,175 99,999 99,999	€9	1,187.30	\$ 1,520.00	59	332.70	69	1.8074 2.2595 2.2595	ଟ ଜ ଜ କ	2.4712 \$ 3.0890 3.0890	0.6638 0.8295 0.8295
Commercial 10-inch	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	2,647 99,999 99,999	1,700 99,999 99,999	€9	1,706.74	\$ 2,185.00	\$	478.26	↔	1.8074 2.2595 2.2595	ର ଜିନି ଜ	2.4712 \$ 3.0890 3.0890	0.6638 0.8295 0.8295

⁽Continued)

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Class of Service	Rate Block	Present	Proposed - Rebuttal		Basic Present Rate Ra	Basic Service Charge Proposed Rate - Rebuttal		Change	1	Volumetri Present F Rate Rat	Volumetric Charge (/M Gal) It Proposed Rate - Rebuttal	Gal) Change
Industrial 5/8 x 3/4 -inch	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	666'66 666'66 666'66	666'66 666'66	₩	12.58 \$	19.00	₩	6.42	↔	2.2696 \$ 2.2696 2.2696	2.0000	\$ (0.2696) (0.2696) (0.2696)
Industrial 1-inch	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	666'66 666'66	666'66 666'66	69	31.44 \$	47.50	€9	16.06	↔	2.2696 \$ 2.2696 2.2696	2.0000 2.0000 2.0000	\$ (0.2696) (0.2696) (0.2696)
Industrial 1.5-inch	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	n/a n/a n/a	666'66 666'66		n/a \$	95.00		n/a		n/a \$ n/a n/a	2.0000 2.0000 2.0000	
Industrial 2-inch	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	666'66 666'66	666'66 666'66 666'66	↔	100.61 \$	152.00	₩	51.39	⇔	2.2696 \$ 2.2696 2.2696	2.0000 2.0000 2.0000	\$ (0.2696) (0.2696) (0.2696)
Industrial 3-inch	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	666'66 666'66	666'66 666'66	↔	201.22 \$	304.00	€9	102.78	₩	2.2696 \$ 2.2696 2.2696	2.0000 2.0000 2.0000	\$ (0.2696) (0.2696) (0.2696)
Industrial 4-inch	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	666'66 666'66	666'66 666'66	↔	314.41 \$	475.00	₩	160.59	€	2.2696 \$ 2.2696 2.2696	2.0000 2.0000 2.0000	\$ (0.2696) (0.2696) (0.2696)
Industrial 6-inch	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	666'66 666'66	666'66 666'66	↔	628.81 \$	950.00	€9	321.19	€	2.2696 \$ 2.2696 2.2696	2.0000 2.0000 2.0000	\$ (0.2696) (0.2696) (0.2696)
Industrial 8-inch	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	666'66 666'66	666'66 666'66 666'66	€9	1,006.10 \$	1,520.00	69	513.90	↔	2.2696 \$ 2.2696 2.2696	2.0000 2.0000 2.0000	\$ (0.2696) (0.2696) (0.2696)
Industrial 10-inch	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	666'66 666'66	666'66 666'66	€9	1,446.27 \$	2,185.00	↔	738.73	↔	2.2696 \$. 2.2696 2.2696	2.0000 2.0000 2.0000	\$ (0.2696) (0.2696) (0.2696)
Private Fire Service	All meter connection sizes:			₩	22.83 \$	27.00	69	4.17		n/a	n/a	
			9)	(Continued)								

^{**}For Service Charges See Company-wide Service Charge Tariff at the end of this schedule**

ARIZONA WATER COMPANY Test Year Ended December 31, 2010 Changes in Representative Rate Schedules

	Rate Block	ock	Proposed	1	Bas	Basic Service Charge	Charge			Volumetr	Volumetric Charge (/M Gal)	Gal)
Class of Service		Present	Rebuttal			Proposed Rate - Rebuttal	orttal	Change	-	Present <u>Rate</u> <u>Ra</u>	Proposed Rate - Rebuttal	Change
Public Fire Hydrant					n/a		n/a	n/a		n/a	n/a	
Coin Machine	No. Gallons / \$.25 (quarter)				n/a		n/a	n/a		n/a	n/a	
Construction Water (2-Inch)	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	125 99,999 99,999	100 99,999 99,999	↔	118.73	s	152.00 \$	33.27	69	1.8074 \$ 2.2595 2.2595	2.4712 3.0890 3.0890	\$ 0.6638 0.8295 0.8295
Construction Water (3-Inch)	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	325 99,999 99,999	220 99,999 99,999	ь	237.46	30	304.00 \$	66.54	₩	1.8074 \$ 2.2595 2.2595	2.4712 3.0890 3.0890	\$ 0.6638 0.8295 0.8295
Construction Water (4-Inch)	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	666'66 666'66 009	350 99,999 99,999	↔	371.03	\$ 47	475.00 \$	103.97	↔	1.8074 \$ 2.2595 2.2595	2.4712 3.0890 3.0890	\$ 0.6638 0.8295 0.8295
Sales for Resale (5/8-Inch)	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	666'66 666'66	666'66 666'66	€>	14.84	€	19.00 \$	4.16	↔	2.2696 \$ 2.2696 2.2696	2.4712 2.4712 2.4712	\$ 0.2016 0.2016 0.2016
Sales for Resale (1-Inch)	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	666'66 666'66	666'66 666'66	↔	37.10	€)	47.50 \$	10.40	€	2.2696 \$ 2.2696 2.2696	2.4712 2.4712 2.4712	\$ 0.2016 0.2016 0.2016
Sales for Resale (1.5-Inch)	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	ה/מ ה/מ ה/מ	666'66 666'66		n/a \$		95.00	n/a		n/a \$ n/a n/a	2.4712 2.4712 2.4712	
Sales for Resale (2-Inch)	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	666'66 666'66	666'66 666'66	∨	118.73 \$		152.00 \$	33.27	↔	2.2696 \$ 2.2696 2.2696		\$ 0.2016 0.2016 0.2016
Sales for Resale (3-Inch)	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	666'66 666'66	666'66 666'66	↔	237.46 \$		304.00 \$	66.54	₩	2.2696 \$ 2.2696 2.2696		\$ 0.2016 0.2016 0.2016
Sales for Resale (4-Inch)	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	666'66 666'66	666'66 666'66	⇔	371.03 \$		475.00 \$	103.97	69	2.2696 \$ 2.2696 2.2696		\$ 0.2016 0.2016 0.2016
Sales for Resale (6-Inch)	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	666'66 666'66 666'66	666'66 666'66	↔	742.06 \$		\$ 00.026	207.94	₩	2.2696 \$ 2.2696 2.2696	2.4712 2.4712 2.4712	\$ 0.2016 0.2016 0.2016
Sales for Resale (8-Inch)	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	666'66 666'66	666'66 666'66	⇔	1,187.30 \$	1,520.00	\$	332.70	₩	2.2696 \$ 2.2696 2.2696		\$ 0.2016 0.2016 0.2016
Sales for Resale (10-Inch)	Tier One Breakover (M Gal): Tier Two Breakover (M Gal): Tier Three Breakover (M Gal):	666'66 666'66	666'66 666'66	↔	1,706.74 \$	2,185.00	\$ 00	478.26	₩	2.2696 \$	2.4712 \$	

For Service Charges See Company-wide Service Charge Tariff at the end of this schedule

		_	[A]			[8]		
Service Charges	Current Rate				Proposed Rate*			
Establishment	\$16.00				\$32.00			
Guarantee Deposit	Residential - maximum: Two(2) times average customer class bill. Non-Residential-maximum: Two and one-half (21/2) times that customers estimated maximum monthly bill.	o(2) times average cur Two and one-half (21/ ithly bill.	stomer class bill. 2) times that custome	ers	No Change			
Reconnection for Delinquency	\$16.00				\$32.00			
Re-Establishment	Eight (8) times the customer's monthly minimum charge, or payment of the minimums since disconnection, whichever is less.	's monthly minimum cl onnection, whichever i	narge, or payment of s less.		No Change			
Service Call Out	During regular working hours - No charge. After regular working hours, on Saturdays, Sundays, or holidays - \$35.00	s - No charge. After re or holidays - \$35.00	gular working hours,		During regular working on Saturdays, Sund The current Service	During regular working hours - no charge. After regular working hours, on Saturdays, Sundays, or holidays - a \$35.00 After Hours Service Charge. The current Service Call Out After Hours Charge is eliminated.	ular working hours fter Hours Service e is eliminated.	Charge.
Returned Check	\$25.00				No Change in rate. Ch	No Change in rate. Change language to read "Returned payment."	irned payment."	
Meter Re-read	No charge, if done during regular working hours, otherwise, a \$35.00 service call out.	gular working hours, o	therwise, a \$35.00		All Meter Re-Reads - \$25.00	.25.00		
Meter Test	No charge for the first test; for the second test for the same customer within any twelve (12) month period, \$50.00, or actual time and material whichever is greater.	or the second test for t onth period, \$50.00, or	he same customer actual time and mate	rial	No charge for the first to any twelve (12) mon is greater.	No charge for the first test; for the second test for the same customer within any twelve (12) mont period, \$25.00, or actual time and material, whichever is greater.	e same customer v me and material, w	vithin hichever
Service Line and Meter Installation	Meter Size	Service Line	Meter	Total	Meter Size	Service Line ¹	Meter	Total
Late Charge		\$ 445.00 830.00 830.00 1,045.00 1,165.00 1,165.00 1,170.00 2,210.00 2,330.00 2,330.00 2,330.00	\$ 155.00 \$ 315.00 1,050.00 1,050.00 1,050.00 1,050.00 1,050.00 2,045.00 2,045.00 5,025.00 6,920.00 6,9		5/8-inch 1-inch 2" turbine 3" turbine 3" turbine 4" turbine 4" turbine 6" turbine 6" compound 6" turbine 10" turbine 10" turbine 10" turbine 10" turbine 10" turbine 10" turbine 10" turbine 10" turbine 10" turbine	, , , , , , , , , , , , , , , , , , ,	55.00 55.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00	\$ 600.00 810.00 1,875.00 2,720.00 Actual Cost Actual Cost Actual Cost Actual Cost Actual Cost Actual Cost Actual Cost Actual Cost Actual Cost Actual Cost Actual Cost

^{*}Adopts Staffs recommended service charges.

Properties Pro	Carry Pack Pack Decembring Present Carry Present Carry Pack Pac	Column C		₹.		<u>n</u>		<u>5</u>		<u></u>	Ī	_	Ξ		<u>5</u>		<u> </u>	Ξ
State	Part	Second Surples Proposed Pro										Typical	Bill					
Statistic Statistics According to the control of the control o	Secretaria Sec	Pattern Patt		Base		ACRM/ PPA	ဝိ	Monthly			Present	Rafes		<u> </u>	oposed		Increa	Se
Control Cont	Column C	Control Cont	Residential 5/8 x 3/4 -inch	Rates		Surcharge		(M Gal)		Base	Surch	arge	Total	i aži	ebuttal	۹ı	mount	Percent
1,122 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,	1,122 3 1,122 3 1,124 1,122 3 1,124 1,125 1,124 1,125	\$ 1772 \$,	₩	17.52	69	,			23.00	↔	5.48	31.2
1,12, 2, 1,12, 2, 1,12, 2,	Cap Cap	1,102 3 1,104 1,105						. 1 2		50.07 62.17			30.0 50.0	- 1	38.94 79.70		17.53	29.45
1,122 3 1,124	1,122 3 1,124 3 1,126 1,124 1,12	1,152 1,152 1,153 1,158 1,158 1,158 1,17	Present Rates					50		80.00		,	800		102.34		22.34	27.03
String S	17.00 1.00	5 17.52 3 115.66 - 17.15 147.83 Galj. 3 115.66 - 17.34 - 17.02 17.02 Galj. 3 151.22 133.49 - 17.02 132.49 170.27 Galj. 3 45 169.16 - 151.22 182.81 21.02 Galj. 98.99 55 204.82 - 204.82 20.48 21.02.83 2 2.2820 3 - 20.48 - 20.48 - 20.28 20.28 20.28 2 2.2820 3 - 20.48 - 20.48 - 20.28 30.81 3						25		97.83		,	97.8		124.98		27.15	27.76%
172 2 172 3 133 49 153 49	17.2 2	15.2 \$						30		115.66		ı	115.6	g	147.63		31.97	27.6
Capp. 3	Control Cont	California	Basic Service Charge:			•		35		133.49		,	133.4	ത	170.27		36.78	27.5
3 28 28 28 28 28 28 28	1991 3 1991 9	S 22820 S 186.99 C 186.90 C	i					4		151.32			151.3	7	192.91		41.59	27.4
Secondaria 10 10 10 10 10 10 10 1	State	S 2020 S 50 168.99 10 10 10 10 10 10 10	Tier One Breakover (M Gal):		ო			45		169.16		1	169.1	g	215,56		46.40	27.4
\$ 2226 6 2834 9 600	2, 2,220, 3	\$ 2280 \$	Tier Two Breakover (M Gal):		9			20		186.99		1	186.9	ത	238.20		51.21	27.3
\$ 2,820 \$	\$ 2,2820 \$	\$ 2.2820 \$	Tier Three Breakover (M Gal):) ⁶⁶	666			55		204.82			204.8	2	260.84		56.02	27.35%
\$ 25620 \$ 65 26531	\$ 2,850 \$	\$ 2,2320 \$ 65 240,44 240,44 306 13 2,5557 777 256 14 378 77 326 77 3,5557 1078 5 156 30 444 55 151 47 3,5557 1078 5 1143 2 200	i					09		222.65			222.6	ιΩ	283.49		60.84	27.32%
2.8627 - 70 27614 - 27614 35141 70.44 3.663 - 105 3630 - 3653 364453 19527 70.44 3.663 - 26653 - 36653 644653 1952	2.8627 - 770 2.8631 - 2.8637 38.77 70.464	2 26627 - 770 28631 - 2863 1 288 77 2867 4 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	Tier One Rate:			•		65		240.48			240.4	80	306.13		65.65	27.30%
\$ 2500 \$ \$ 175 \$ 275 14 \$ 35141 \$ 75.27 \$ 14.00 \$	\$ 23.00 \$ 276.14 2776.14 351.41 75.27 365.30	\$ 23.00 \$ - 75 2.05 14 351.41 \$ 23.00 \$ - 365.30 - 365.30 - 444.65 \$ 200 \$ 771.93 - 543.62 - 543.62 - 511.43 \$ 23.00 \$ - 30.00 \$ - 10.05 6 - 10.05 6 - 11.43 \$ 23.00 \$ - 10.05 6 - 10.05 6 - 11.43 \$ 23.00 \$ - 10.05 6 - 10.05 6 - 11.43 \$ 23.00 \$ - 10.05 6 - 10.05 6 - 11.43 \$ 23.00 \$ - 10.05 6 - 10.05 6 - 11.43 \$ 23.00 \$ - 10.05 6 - 10.05 6 - 11.43 \$ 23.00 \$ - 10.05 6 - 10.05 6 - 11.43 \$ 23.00 \$ - 10.05 6 - 10.05 6 - 11.43 \$ 23.00 \$ - 10.05 6 - 10.05 6 - 11.43 \$ 23.00 \$ - 10.05 6 - 10.05 6 - 11.43 \$ 23.00 \$ - 10.05 6 - 10.05 6 - 10.05 \$ 20.00 \$ - 10.05 6 - 10.05 \$ 20.00 \$ - 10.05 6 - 10.05 \$ 20.00 \$ - 10.05 6 - 10.05 \$ 20.00 \$ - 10.05 \$	lier Two Rate:	2.8	527	•		20		258.31		,	258.3	_	328.77		70.46	27.28%
100 365.50 565.50 664.65 691.05 691.	100 365.30 565.50 664.65 197.49 193.34 193.	150 545.50 565.00 644.63 150 150 545.50 - 567.50 644.63 150 150 572.192 - 572.192 174.192 250 1070.25 - 1070.25 144.193 150 1070.25 - 1070.25 144.193 150 1070.25 - 1070.25 144.193 150 1070.25 - 1070.25 144.193 150 1070.25 - 1070.25 144.193 150 1070.25 - 1070.25 160 1771.82 - 1070.82 160 1771.82 - 1070.82 160 1771.82 - 1070.82 160 1771.82 - 1070.82 160 1771.82 - 1070.82 160 1771.82 - 1070.82 160 1771.82 - 1070.82 160 1771.82 - 1070.82 160 1771.82 - 1070.82 1771.82 - 1070.82 1771.82 - 1070.82 1771.82 - 1070.82 1771.83 - 1070.82 1771.83 - 1070.83 1771	lier Ihree Rate:	3.5	963	•		75		276.14		,	276.1	4	351.41		75.27	27.2
\$ 23.00 \$ 543.62 68106 1474 44 5	S 23 00 S 25 00 C 25 0 C 25	\$ 23.00 \$ 731.93						100		365.30		,	365.3	0	464.63		99.33	27.1
\$ 200 07.5 317.49 195.56 \$ 25.00 \$	S 23.00 721 33 17.48 195.68	\$ 220 72193 - 72193 91749 Sali: 3 250 8 52 50 900.25 1144392 Gali: 3 400 11266 9100.25 1144392 Gali: 3 400 11266 9100.25 114392 Gali: 3 400 11266 9100.25 1144392 Gali: 3 400 11266 9100.25 1144392 Gali: 3 400 11266 9100.25 1144392 Gali: 3 6229 - 16155 1 16152 1 2.04664 Gali: 3 6229 - 16155 1 16152 1 2.04664 Gali: 3 6229 - 16155 1 16152 1 2.04664 Gali: 3 6229 - 16155 1 16152 1 2.04664 Gali: 3 6229 - 16155 1 16152 1 2.04664 Gali: 3 6229 - 16155 1 16152 1 2.04664 Gali: 3 6229 - 16155 1 16152 1 2.04664 Gali: 3 6229 - 16155 1 16152 1 2.04664 Gali: 3 6229 - 16155 1 16152 1 2.04664 Gali: 3 6229 - 16155 1 16152 1 2.04664 Gali: 3 6229 - 16155 1 16152 1 2.04664 Gali: 3 6224 1 16151 1 2.04664 Gali: 3 6224 1 16151 1 2.04664 Gali: 3 6224 1 16151 1 2.04664 Gali: 3 6224 2 1 16151 1 2.04664 Gali: 3 6224 2 1 16151 1 2.04664 Gali: 3 6224 2 1 16151 1 2.04664 Gali: 3 6224 2 1 16151 1 2.04664 Gali: 3 6224 2 1 16151 1 2.04664 Gali: 3 6224 2 1 16151 1 2.04664 Gali: 3 6224 2 1 16151 1 2.04664 Gali: 3 6224 2 1 16151 1 2.04664 Gali: 3 6224 2 1 16151 1 2.04664 Gali: 3 6224 2 1 16151 1 2.04664 Gali: 3 6224 2 1 16151 1 2.04664 Gali: 3 6224 2 1 16151 1 2.04664 Gali: 3 6224 2 1 16151 1 2.04664 Gali: 3 6224 2 1 16151 1 2.04664 Gali: 3 6224 2 1 16161 1 1 2.04664 Gali: 3 6224 2 1 16161 1 1 2.04664 Gali: 3 6224 2 1 16161 1 1 2.04664 Gali: 3 6224 2 1 16161 1 1 2.04664 Gali: 3 6224 2 1 16161 1 1 2.04664 Gali: 3 6224 2 1 16161 1 1 2.04664 Gali: 3 6224 2 1 16161 1 1 2.04664 Gali: 3 6224 2 1 16161 1 1 2.04664 Gali: 3 6224 2 1 16161 1 1 2.04664 Gali: 3 6224 2 1 16161 1 1 2.04664 Gali: 3 6224 2 1 16161 1 1 2.04664 Gali: 3 6224 2 1 16161 1 1 2.04664 Gali: 3 6224 2 1 16161 1 1 2.04664 Gali: 3 6224 2 1 16161 1 1 2.04664 Gali: 3 6224 2 1 16161 1 1 2.04664 Gali: 3 6224 2 1 16161 1 1 2.04664 Gali: 3 6224 2 1 16161 1 1 2.04664 Gali: 3 6224 2 1 16161 1 1 2.04664 Gali: 3 6224 2 1 16161 1 1 2.04664 Gali: 3 6224 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1						150		543.62			543.6	2	691.06		147.44	27.1
\$ 23.00 \$	\$ 250 0 \$ 900.25 900.25 1,443.92 24457	\$ 23.00 \$ 900.25	Proposed Rates - Rebuttal					200		721.93		,	721.9		917.49		195.56	27.0
\$ 23.00 \$	\$ 23.00 \$	\$ 23.00 \$ 350 1.078.56 1,078.56 1,370.35 3						250		900.25		ı	900.2		1,143.92		243.67	27.0
\$ 23 00 \$ 350 1,256 88	\$ 23 00 \$ 350 1,256 88 1,256 88 1,565 78 3390 999 999 999 999 999 999 999 999 99	\$ 23.00 \$ 350 1,256.88 1,256.88 1,596.78						300		1,078.56			1,078.5		1,370.35		291.79	27.0
\$ 2883 \$	\$ 2.8863 \$ - 400 1,435,19 - 1,435,12 1,434,14 1,435,19 - 1,435,19 1,832,21 388,02	\$ 2.8883 \$ - 400	basic service Unarge:			J		350		1,256.88		•	1,256.8		1,596.78		339.90	27.0
\$ 2883 \$	\$ 1989 \$ 500 1,791.3	\$ 2.883 \$ 550 1,791,82 1,791,82 2,780 1,999,99 550 1,970,14 1,970,14 2,502,50 650 2,148,45 2,556,09 2,148,45 2,556,09 2,148,45 2,556,09 2,26,77 2,556,09 2,26,77 2,556,09 2,26,77 2,556,09 2,26,17 2,556,09 2,26,17 2,556,09 2,26,17 2,556,09 2,26,17 2,556,09 2,26,17 2,556,09 2,26,17 2,556,09 2,26,17 2,556,09 2,26,17 2,56,09 2,26,09 2,26,17 2,56,09 2,26	Tier One Breakover /M Gal):		ď			004		1,435.19		ı	1,435.1		1,823.21		388.02	27.0
\$ 28893 \$ 666 2.328.77 2.326.77 2.3	\$ 2883 \$ -500 1,74182 - 1,74182 - 1,74182 5,276.07 444.25 5,276.07 1,74182	\$ 2,883 \$ 5.00 1,718 2 1,718 2 2,276 1 1,718 2 5,225 5 1 1,518 2 5,225 5 1 1,518 2 5,225 5 1 1,518 2 5,25 5 1,218 2 5,25 5 1 1,218 2 5,25 5 1 1,218 2 5,25 5 1 1,218 2 5,25 5 1 1,218 2 5,25 5 1 1,218 2 5,25 5 1 1,218 2 5,25 5 1 1,218 2 5,25 5 1 1,218 2 5,25 5 1 1,218 2 5,25 5 1 1,218 2 5,25 5 1 1,218 2 5,25 5 1 1,218 2 5,25 5 1 1,218 2 5,25 5 1 1,218 2 5,25 5 1	Tier Two Breakover (M Cal):		٠ (000		1,613.51		ı	7,673.5		2,049.64		436.13	27.07
\$ 2.8983 \$	\$ 2893 \$ - 660	\$ 2,888 \$ - 600	Tier Three Breakover (M.Cal).	c	2 8			200		1,791.82		ı	1,791.8		2,276.07		484.25	27.0
\$ 28983 \$ - 660	\$ 28983 \$ 6500 2.76474	\$ 28983 \$ - 650	i di tilled Dieanovei (Mi Gal).	n n	888			220		1,970.14		,	1,970.1		2,502.50		532.37	27.0.
4.526 - 505.08 - 2.505.08 3.161.79 676.71 4.528 - 700 2.505.08 - 2.505.08 3.161.79 676.71 4.528 - 700 2.505.08 - 2.505.08 3.161.79 676.71 4.528 - 700 2.505.08 - 2.505.08 3.161.79 676.71 4.528 - 700 2.505.08 3.161.79 676.71 4.528 - 850 3.040.03 3.861.08 824.10 4.500 3.218.34 4.56.38 824.2 Average Usage: 6.3 \$ 33.84 \$ - \$ \$ 33.84 \$ 13.72 \$ \$ 10.70 Average Usage: 6.3 \$ 33.84 \$ - \$ \$ 37.20 \$ 48.00 Froposed Bill at Lifeline Usage (3.0 M Gal): \$ 31.69 Cost of Service at Lifeline Usage: 16.99%	4.526	4.526 - 550 2.66.08 - 2.526.08 3.141.79 4.526 - 750 2.663.40 - 2.663.40 3.406.25 4.526 - 750 2.663.40 - 2.663.40 3.406.25 4.526 - 760 2.663.40 - 2.663.40 3.406.25 850 3.040.03 - 3.040.03 3.861.08 850 3.748.34 - 2.663.40 3.861.08 850 3.748.34 - 2.663.40 3.861.08 850 3.748.34 - 3.546.55 850 3.748.34 - 3.546.55 850 3.744.27 - 5.365.12 6.804.68 85.324.42 - 5.365.12 6.804.68 85.324.42 - 5.365.12 6.804.68 85.324.42 - 5.365.12 6.804.68 85.324.42 - 5.367.43 13.597.59 85.37.20 \$ 33.84 \$ 43.73 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	Tier One Date:					000		2,146.45			2,148.4		2,728.93		580.48	27.07
4,5286 - 750 2,683.40 - 2,683.40 3,408.2 724,83 800 2,861,71 - 2,861,71 3,634.62 772,94 800 3,248.3 - 3,040.03 3,640.03 3,640.03 772,94 800 3,248.3 - 3,248.3 4,087.5 861.06 800 3,248.3 - 3,248.3 4,087.5 869.7 869.7 772,94 1,000 3,248.3 - 3,248.3 4,087.5 869.7 869.7 772,94 2,000 7,141,27 - 7,141,27 9,083.9 1,227.7 1 2,000 10,707.57 - 10,707.57 13,597.59 2,890.02 Average Usage: 6.3 \$ 33.84 \$ 43.73 \$ 8.56 Standardized Usage: 7.5 \$ 37.20 \$ 48.00 \$ 10,79 Proposed Bill at Lifeline Usage (3.0 M Gal); \$ 37.47 \$ 8.56 Cost of Service at Lifeline Usage: 16,99%	4.5286 - 750 2,503.00 - 2,503.00 - 7,503.00	4,5286 - 750 2,503.00 - 2,503.00 - 3,101.79 4,5286 - 750 2,503.40 - 2,663.40 3,101.79 800 2,861.71 - 2,681.71 3,634.65 800 3,218.34 - 2,681.71 3,634.65 1,000 3,218.34 - 3,218.34 4,087.51 1,000 3,218.34 - 3,218.34 4,047.51 1,000 5,368.12 - 5,358.12 6,804.68 2,000 7,141.27 - 7,141.27 9,068.99 8,924.42 - 8,924.42 11,333.28 Average Usage: 6.3 \$ 33.84 \$ 43.73 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	Tier Two Rate					990		2,325.77			2,326.7		2,955.36		928.60	27.02
Average Usage: 6.3 \$ 3.384 \$ 4.075 \$ 4	7.25cb 7.75cb 7.	Average Usage: 6.3 \$ 3384 \$ 1597.57 Average Usage: 6.3 \$ 3384 \$ 1597.57 Standardized Usage: 7.5 \$ 538.12 Froposed Bill at Lifeline Usage: 7.5 \$ 538.18 Cost of Service at Lifeline Usage: 16.39%	Tier Three Pate	0 4	300	ı		3 5		2,303.00			2,000.0		0,101.79		0/0./	2.0
850 3,040,03 - 2,861.71 3,634.85 77.294 85.0 3,040,03 - 3,674.97 4,540.38 821.06 821.06 3,218.34 - 3,218.34 4,087.51 869.17 1,000 3,574.97 - 5,358.12 6,804.68 1,446.56 1,446.56 2,000 7,141.27 - 7,141.27 9,088.98 1,427.71 2,500 8,924.42 - 8,924.42 11,333.28 2,408.86 3,000 10,707.57 - 10,707.57 13,597.59 2,890.02 8,924.42 - \$ 33.84 \$ 43.73 \$ \$ 9.89 4.6 \$ \$ 28.91 \$ \$ 37.47 \$ \$ 8.56 7.5 \$ \$ 37.20 \$ \$ 48.00 \$ \$ 10,79 \$ 10,7	850 3,040,03 - 2,861.71 3,634.85 772.94 8900 3,218.34 - 3,574.97 4,540.38 821.06 821.06 3,574.97 - 5,358.12 6,804.68 1,446.56 7,141.27 - 7,141.27 9,088.98 1,927.71 2,500 10,707.57 - 10,707.57 13,597.59 2,890.02 8,924.42 - \$ 33.84 \$ 43.73 \$ 8.85 6.3 \$ 33.84 \$ - \$ 33.84 \$ 43.73 \$ \$ 9.89 6.3 \$ 37.20 \$ \$ 37.20 \$ 48.00 \$ \$ 10.79 \$ \$ 10.79 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	800 2,861,71 - 2,861,71 3,634,65 856 3,040,03 3,841,08 900 3,218,34 - 3,218,34 4,087,51 1,000 3,574,97 - 5,358,12 6,804,68 2,000 7,141,27 - 7,141,27 9,068,98 2,500 10,707,57 - 10,707,57 13,597,59 3,000 10,707,57 - \$ 33,84 \$ 43,73 \$ \$ 4.6 \$ \$ 28,91 \$ 33,84 \$ 48,00 \$ \$ 37,20 \$ \$ 37,20 \$ \$ 37,20 \$ \$ 37,20 \$ \$ 37,69 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	100 100 100	t.	007	•		06/		2,683.40			2,683.40		3,408.22		724.83	27.0
850 3,040,03 3,040,03 3,861,08 821,06 3,749,03 3,574,97 4,507,51 965,17 965,17 1,000 3,574,97 - 5,358,12 6,804,68 1,446,56 2,000 7,141,27 - 7,141,27 9,068,98 1,927,71 2,500 10,707,57 - 10,707,57 13,597,59 2,899,02 10,707,57 - \$ 33.84 \$ 43.73 \$ 8.989 4.6 \$ \$ 3,328 4 \$ - \$ \$ 33.84 \$ 43.73 \$ \$ 9.89 4.6 \$ \$ 37.20 \$ \$ 48.00 \$ \$ 10,79 \$ 1	850 3,040,03 3,040,03 3,040,03 3,861,08 821,06 3,7497 - 3,7497 4,087,51 869,17 1,000 3,574,97 - 5,358,12 6,804,68 1,446,56 2,000 7,141,27 - 7,141,27 9,068,98 1,927,71 2,500 8,924,2 - 8,924,42 11,33,28 2,408,86 3,000 10,707,57 - 10,707,57 13,597,59 2,899,02 4,6 \$ \$ 33.84 \$ 43.73 \$ \$ 9.89 4,6 \$ \$ 37.20 \$ 48.00 \$ \$ 10.79 \$ 10.79 \$ \$ 10.79 \$ \$ 10.79 \$ \$ 10.79 \$ \$ 10.79 \$ \$ 10.79 \$ \$ \$ 10.79 \$ \$ 10.79 \$ \$ 10.79 \$ \$ 10.79 \$ \$ 10.79 \$ \$ 10.79 \$ \$ 10.79 \$ \$ 10.79 \$ \$ 10.79 \$ \$ 10.79 \$ 10.7	850 3,040.03 - 3,040.03 3,861.08 3,057.497 - 3,218.34 4,087.51 1,000 3,574.97 - 3,218.34 4,087.51 1,000 5,358.12 - 5,358.12 6,804.68 2,000 7,141.27 - 5,358.12 6,804.68 2,000 10,707.57 - 10,707.57 13,597.59 10,707.57 - 10,707.57 13,597.59 10,707.57 - 10,707.57 13,597.59 10,707.57 12,597.59 10,707.57 12,597						900		2,861.71		,	2,861.7		3,634.65		172.94	27.0
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Proposed Present Rates Proposed Proposed Present Rates Proposed Present Rates Proposed Present Rates Proposed Present Rates Proposed Present Rates Proposed Present Rates Proposed Present Rates Proposed Present Rates Proposed Present Rates Proposed Present Rates Proposed Rates Pr	Figure	Same				(•	Tvoical Ritt	Ξ _	Σ	Ē		
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harge: \$ 20.00 \$ 1715.63 1715.63 1715.64 1712.84 wer (M Gal): 3 3.60 5 350 1407.18 1715.67 1712.84 wer (M Gal): 3 4.60 2.251.87 1.688.75 1.686.	harge: \$ 20.00 \$	Average Usage: 3 20.00 \$ \$ 30.00 1,125.63 \$ 30.00 \$ \$ 30.00 1,125.63 \$ 30.00 \$ \$ 30.00 1,688.75 \$ 30.00 \$ \$ 30.00 1,688.75 \$ 30.00 \$ \$	richosed Kates - Kebuttal					00.00	844.07		,	844.07	836.20	10	1	
wer (M Gal): \$ 20.00 \$	1407.19 1407	harge: \$ 20.00 \$ 350 1.407.19 1407.19 1407.19 300 1.688.75 350 1.970.31 1407.19 350 1.970.31 1407.19 350 1.970.31 350 1.970.31 350 1.970.31 350.00 1.033.43 350.00 2.814.99 550 3.986.55						200	1,125.63			,125.63	1.112.84		5 6	
1988 75 1988	1588 75 1588 75 1566 12 1970 31 1970 31 1972 1566 12 1970 31 1970 31 1942 75 1970 31 1970 31 1942 75 1970 31 1970 31 1942 75 1970 31 1970 31 1942 75 1970 31 1970 31 1942 75 1970 31 1970 31 1942 75 1970 31 1970 31 1942 75 1970 31 1942 75 2.134 0 1970 31 1942 75 2.134 0 1970 31 1942 75 2.134 0 1970 31 1942 75 2.134 0 1970 31 1942 75 2.134 0 1970 31 1942 75 2.134 0 1970 31 1942 75 2.134 0 1970 31 1942 75 2.134 0 1970 31 1942 75 2.134 0 1970 31 1942 75 2.134 0 1970 31 1942 75 2.134 0 1970 31 1942 75 2.134 0 1970 31 1942 75 2.134 0 1970 31 1942 75 2.134 0 1970 31 1942 75 2.134 0 1970 31 1942 75 2.134 0 1970 31 1942 75 2.134 0 1970 31 1942 75 2.134 0 1970 31 1942 75 1970 31 1942 75 1970 31 1942 75 1970 31 1942 75 1970 31 1942 75 1970 31 1942 75 1970 31 1942 75 1970 31 1942 75 1970 31 1942 75 1970 31 1942 75 1970 31 1942 75 1970 31 1942 75 1970 31 1942 75 1970 31 1942 75 1970 31 1970 31 1970 31	harge: \$ 20.00 \$. 350 1,570.31 wer (M Gal): 3 450 2,251.43 wer (M Gal): 99,999 550 2,814.99 sover (M Gal): 99,999 550 2,814.99 sover (M Gal): 99,999 550 3,096.55 5,5328						720	1,407.19			407,19	1 389 48	7.	6	
350 1;970:31 1;970:31 1;942.76 1970:31 1942.76 500 2.251.87 2.251.67 1;942.76 500 2.251.87 2.251.67 2.2719.40 500 2.251.87 2.2719.40 500 3.086.55 2 2.531.43 2.486.04 4.4282 2 2.531.43 2.486.04 5.5328 2 2.532.77 28 5.5328 2 2.532.77 28 5.5328 2 2.532.77 28 5.5328 2 2.532.77 28 5.5328 2 2.532.77 28 5.5328 2 2.532.77 28 5.5328 2 2.532.77 28 5.5328 2 2.532.77 28 5.5328 2 2.532.77 28 5.5328 2 2.532.77 28 5.5328 2 2.532.77 28 5.5328 2 2.532.77 28 5.5328 2 2.532.77 28 5.5328 2 2.532.77 28 5.5328 2 2.532.77 28 5.5328 2 2.532.77 28 6.00 2.000 2.000.77 6.000 11,261.79 11,261.79 11,071.89 7.500 14,077.39 14,077.89 12,077.89 7.500 14,077.39 14,077.89 18,832.99 7.500 14,077.39 18,932.89 7.500 14,077.39 18,932.89 7.500 14,077.39 18,932.89 7.500 14,077.39 18,932.89 7.500 14,077.39 18,932.89 7.500 14,077.39 18,932.89 7.500 14,077.39 18,932.89 7.500 14,077.39 18,932.99 7.500 14,077.39 18,932.89 7.500 14,077.39 18,932.89 7.500 14,077.39 18,932.89 7.500 14,077.39 18,932.89 7.500 14,077.39 18,932.89 7.500 14,077.39 18,932.89 7.500 14,077.39 18,932.89 7.500 14,077.39 18,932.89 7.500 18,000.90 7.500 18,000.90 7.500 18,000.90 7.500 18,000.90 7.500 18,000.90 7.500 18,000.90 7.500 18,000.90 7.500 18,000.90 7.500 18,000.90 7.500 18,000.90 7.500 18,000.90 7.500 18,000.90 7.500 18,000.90 7.500 1	950 1970.31 19	350 1,970,31 400 2,533,43 50 2,533,43 50 2,534,43 50 2,814,99 50 0 2,814,99 50 0 3,78,11 5,5328	Basic Service Charge:	69		4		300	1,688.75			688.75	1 666 12			
wer (M Gal): 3 400 2.25187 2.75187 2.75187 2.75187 2.75187 2.751840 2.55343 2.48 6.04 6.04 6.04 6.04 6.04 6.04 6.04 6.04	wer (M Gal): 3 450 2,531 87 2,251 87 2,251 87 2,251 67 2,533 43 2,532 65 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	wer (M Gal): 3 450 2,231.87 wer (M Gal): 10 500 2,814.99 sover (M Gal): 99,999 sover (M Gal): 99,999 sover (M Gal): 99,999 sover (M Gal): 99,999 sover (M Gal): 10 500 2,814.99 sover (M Gal): 3,378.11 sover (M Gal): 99,999		•		•	,	320	1,970.31		,	970.31	1 942 76	22)	ري ان	
wer (M Gal); 10 500 2.533.43 - 2.533.43 2.406.04	wor (M Gal): 10 553043 2,43540 2,772.88 cover (M Gal): 99.999 550 2,83343 2,772.88 cover (M Gal): 99.999 550 2,83343 2,772.88 cover (M Gal): 99.999 650 3,086.55 - 3,086.55 3,049.32 2,772.88 cover (M Gal): 99.999 650 3,086.55 - 3,086.55 3,049.32 2,772.89 cover (M Gal): 99.999 650 3,086.55 - 3,086.55 3,049.32 2,772.89 cover (M Gal): 99.999 650 2,532.89 2,772.89 2	wer (M Gal): \$ 3.5410 \$ \$ 0.00	Tier One Breakover (M Gal):		·			400	2,251.87			251.87	0,342.70	(2)	(\$6.	
\$ 3.5410 \$ 9.999 \$ 500 \$ 2.814.99 \$ 2.772.88 \$ 3.086.55	\$ 35410 \$ 500 2,814.99	\$ 35410 \$ 500 2,814.99 550 3,096.55 550 4,426.2 5,5328 5,5	Tier Two Breakover (M. Cal):		, i			450	2 533 43			77.07	2,213.40	(32	(47)	
\$ 35410 \$ 550 5,096.55 7,72.68 7,99999 \$ 55410 \$ 560 3,788.11 7,378.11 3,325.96 \$ 44222 7,750 3,941.23 7,941.23 7,941.22 7,941.22 7,941.23 7,94	\$ 35410 \$ 5.00 5.50 5.50 5.50 5.50 5.50 5.50 5	\$ 3.5410 \$ 5.50 3.086.55 5.00 3.086.55 5.00 3.086.55 5.00 3.086.55 5.00 3.086.55 5.00 3.086.55 5.00 5.5328 7.00 3.941.23 7.00 3.941.23 7.00 3.941.23 7.00 4.222.79 7.00 4.222.79 7.00 4.222.79 7.00 5.00 4.222.79 7.00 5.00 5.00.747 7.00 5.00 5.00.747 7.00 5.00 7.00 5.00.59 7.00 7.00 7.00 7.00 7.00 7.00 7.00 7.0	Tier Three Breakover (M.C.).	•	10			200	2814 99			533.43	2,496.04	(37	39)	
\$ 35410 \$ 600 3,378.11 - 3,086.55 3,049.32 5,5328 - 700 3,941.23 - 3,986.55 3,502.50 5,5328 - 760 4,222.79 - 4,222.79 4,155.88 600 4,785.91 - 4,709.16 900 5,067.47 - 5,067.47 - 4,985.80 1,000 5,067.47 - 5,067.47 - 4,985.80 1,000 6,067.47 - 5,067.47 - 4,985.80 1,000 11,261.79 - 11,261.79 11,071.89 2,000 11,261.79 - 11,261.79 11,071.89 2,000 11,261.79 - 16,062.69 1,000 11,261.79 - 16,062.69 2,500 11,261.79 - 16,062.69 1,000 11,261.79 - 16,062.69 2,500 11,261.79 - 16,062.69 2,500 11,261.79 - 16,062.69 3,000 16,892.89 - 16,062.69 5,532.89 - 16,062.69 5,532.89 - 16,062.69 5,530.	\$ 3.5410 \$. 660 3.378.11 - 3.378.15 3.2586 4.4262 - 700 3.841.23 - 3.695.67 3.602.60 5.5328 - 750 4.222.79 - 4.222.79 4.155.88 800 4.222.79 - 4.222.79 4.155.88 800 4.756.91 - 4.703.15 800 5.667.47 - 4.222.79 4.155.88 800 5.667.47 - 4.222.79 4.155.88 800 1.500 5.667.47 - 4.355.91 800 1.261.79 - 1.261.79 11.071.89 800 1.261.79 - 1.261.79 11.071.89 800 1.261.79 - 1.261.79 11.071.89 800 1.261.79 - 1.261.79 11.071.89 800 1.261.79 - 1.261.79 11.071.89 800 1.261.79 - 1.261.79 11.071.89 800 1.261.79 - 1.261.79 11.071.89 800 1.261.79 - 1.261.79 11.071.89 800 1.261.79 11.071.8	\$ 3.5410 \$ 600 3,378.11 650 4,4262 3,941.23 650 4,522.79 650 4,522.79 800 4,722.79 800 4,722.79 800 4,722.79 800 4,722.79 800 4,722.79 800 4,722.79 800 4,722.79 800 4,722.79 800 4,722.79 800 4,722.79 800 1,500 1,261.79	THE CALCANOVER (INI GAI):	<i>o,</i>	666'6			550	3,000 55			814.99	2,772.68	(42	31)	
\$ 35410 \$ 650 3,578,11 - 3,378,11 3,325,96	\$ 35410 \$	\$ 35410 \$ 3,341.11 -4,4282 5,5328 750 8,000 4,504.35 850 4,785.91 900 5,630.59 1,000 5,630.59 1,500 1,1,61.77 1,000 5,630.59 1,500 1,1,61.79 2,000 1,1,61.79 2,000 1,1,61.79 2,000 1,6892.99 1,6892.	Ties Oscilla					009	2,030.00			096.55	3,049.32	(47	23)	
4.4262 700 3.659.67 3.659.67 3.602.60 5.5328 750 4.422.79 4.155.88 600 4.504.35 - 4.222.79 4.155.88 600 4.504.35 - 4.522.79 4.155.88 600 4.504.35 - 4.522.79 4.155.88 600 4.504.35 - 4.504.35 4.4735.19 6.500 1.500 8.446.19 - 5.067.47 4.995.80 6.500 11.261.79 1.1261.79 1.1071.89 6.500 11.261.79 - 11.261.79 1.1071.89 6.500 14.077.39 13.638.29 6.500 16.604.69 6.500 14.077.39 13.638.29 6.500 14.077.39 13.638.29 6.500 14.077.39 13.638.29 7.500 14.077.39 15.604.69 6.500 17.601 8.505.89 6.500 17.601 8.505.89 6.500 17.601 8.505.89 6.500 17.601 8.505.89 6.500 17.601 8.505.89 6.500 17.601 8.505.89 6.5001 17.601 8.505.89 6.5001 17.601 8.505.89 6.5001 17.601 8.505.89 6.5001 17.601 8.505.89 6.5001 17.601 8.505.89 6.5001 17.601 8.505.89 6.5001 17.601 8.505.89 6.5001 17.601 8.505.89 6.5001 17.601 8.505.89 6.5001 17.601 8.505.89 6.5001 17.601 8.505.89 6.5001 17.601 8.505.89 6.5001 17.601 8.505.89 6.5001 17.601 8.505.89 6.5001 17.601 8.505.89 6.5001 17.601 8.505.89 6.5002 17.601 8.505.89 6.5003 17.601 8.505.89 6.50	5.5328	5.5328 750 3,849.67 - 700 3,841.23 - 750 4,222.79 - 800 4,504.35 - 750 4,504.35 - 750 4,504.35 - 750 4,504.35 - 750 1,000 5,007.47 - 750 5,007.47 - 750 5,000 11,261.79 - 750 1,000 11,261.79 - 750 1,000 11,261.79 - 750 1,000 11,261.79 - 750 1,000 11,261.79 - 750 1,000 11,261.79 - 750 1,000 16,892.39 - 75 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Ter Orie Rate				,	9 9	5,3/8.11			378.11	3,325.96	(52)	(2)	
5.5328	5.5328 7.00 3,941,23 3,941,22 3,941,22 3,879,24	5.5328 750 4,222.79 - 750 4,222.79 - 750 4,222.79 - 750 4,785.91 - 760 5,067.47 -	Jer I wo Kate:	4	.4262		,	000	3,659.67			659.67	3.602.60	(57	6	
750 4,222.79 4,155.88 800 4,504.35 - 4,504.35 4,432.52 850 800 5,067.47 - 5,067.47 4,985.80 1,000 5,605.99 - 5,630.59 5,839.08 1,500 8,446.19 - 8,446.19 8,305.49 2,500 11,261.79 11,077.39 11,077.89 3,000 16,892.99 16,604.69 16,892.99 - 16,892.99 16,604.69 8 \$ 32.43 \$ 25.56 \$ 31.99 8 \$ 32.44 \$ 50.54 Proposed Bill at Lifeline Usage (3.0 M Gal): \$ 30.62 Cost of Service at Lifeline Usage: 4,93% Cost Discount at Lifeline Usage: 4,93%	750 4,222.79 4,155.88 800 4,504.35 - 4,525.90 800 4,504.35 - 4,525.80 800 5,637.47 - 4,085.80 1,000 5,630.59 - 5,067.47 4,085.80 1,500 8,446.19 - 8,446.19 1,071.89 2,500 11,261.79 - 11,261.79 1,071.89 2,500 14,077.39 - 14,077.39 1,071.89 8,005.49 (6,10) 1,6892.99 16,604.69 1,604.69 16,604.69 8,32.43 \$ 32.43 \$ 38.73 \$ 50.54 Proposed Bill at Lifeline Usage (3.0 M Gal): \$ 30.62 Cost of Service at Lifeline Usage: 4,93% Cost of Service at Lifeline Usage: 4,93%	750 4,222.79 800 4,504.35 850 4,785.91 1,000 5,630.59 1,500 14,619 2,000 14,077.39 3,000 16,892.99 1,000 16,89	Tier Three Rate:	u,	5328			00/	3,941.23		· κ	941.23	3 879 24	(5)	2 6	
800 4,504.35 - 4,504.35 4,432.52 850 900 5,007.47 - 4,985.80 1,000 5,007.47 - 5,007.47 4,985.80 1,500 11,261.79 - 1,1261.79 11,261.79 11,261.79 11,261.79 11,071.89 2,500 14,077.39 - 14,077.39 13,838.29 16,604.69 (2,500 14,077.39 - 16,892.99 16,604.69 (2,500 14,444 \$ 32.43 \$ 32.43 \$ 32.43 \$ 30.62 Cost of Service at Lifeline Usage (3.0 M Gal): \$ 30.62 Cost of Service at Lifeline Usage (3.0 M Gal): \$ 32.21 % Cost Discount at Lifeline Usage: 4.93%	800 4,504.35 - 4,504.35 4,432.52 850 5,607.47 4,985.80 1,000 5,007.47 - 5,067.47 4,985.80 1,500 8,446.19 - 5,067.47 4,985.80 1,500 8,446.19 - 11,261.79 1,071.89 1,4,077.39 1,3,838.29 16,604.69 1,6,892.99 16,604.69 1,5,500 1,6,892.99 16,604.69 1,5,500 1,6,892.99 16,604.69 1,5,500 1,5,50	800 4,504.35 850 4,785.91 900 5,007.47 1,000 8,446.19 2,000 11,261.79 2,500 14,077.39 3,000 16,892.99 4.8 \$ 32.43 \$ - \$\$ 7.5 \$ 44.44 \$ - \$\$ Proposed Bill at Lifeline Usage (3.0 Cost of Service at Lifeline Usage (3.0 % Cost Discount at Lifeline		•			,	750	4,222.79			97 266	4 155 88	.10)	(2)	
950 4,785.91 - 4,785.92 4,702.32 900 5,697.47 - 5,067.47 4,985.80 1,500 8,446.19 - 5,630.59 5,539.08 1,260.00 11,261.79 - 11,261.79 1,077.39 1,077.	850 4,785.91	950 4,785.91						800	4,504.35			504.35	4,133.00	(66.	91)	
900 5,067.47 - 4,703.19 4,703.19 1,000 5,030.59 - 5,630.59 5,539.08 1,500 11,261.79 - 11,261.79 11,071.89 2,500 14,077.39 - 14,077.39 13,838.29 16,604.69 16,892.99 16,604.69 5,535.68 \$ 32.43 \$ 32.43 \$ 32.43 \$ 33.44.44 \$ - \$ 44.44 \$ 50.54 \$ 50.54 \$ \$ 7.5 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	900 5,067.47 - 4,703.19 4,703.16 1,000 5,005.47 - 5,005.47 4,985.80 1,500 11,261.79 - 11,261.79 1,077.89 2,500 14,077.39 - 11,261.79 1,077.89 1,077.39 13,838.29 16,892.99 16,604.69 1,077.89 2,500 16,892.99 16,604.69 1,077.89 1,0	900 5,067.47 5,1,000 8,446.19 8,446.19 6,846.19 11,200 11,261.79 11,200 11,261.79 11,200 11,261.79 11,200 11,261.79 11,261.79 11,261.79 11,261.79 11,261.79 11,261.79 11,261.79 11,261.79 11,261.79 11,261.79 11,261.79 12,261.79						850	4 785 91			201.00	4,452.32	(71.	83)	
1,000 5,630.59 - 5,067.47 4,985.80 1,500 8,446.19 - 5,630.59 5,539.08 8,446.19 - 6,630.59 1,1,261.79 1,1,071.89 2,000 14,077.39 - 11,261.79 11,071.89 1,4,077.39 13,838.29 16,604.69 (7,1,2,1,2,1,2,1,2,1,2,1,2,1,2,1,2,1,2,1,	1,000 5,001.41 - 5,067.47 4,985.80 1,500 5,005.49 - 5,067.47 4,985.80 1,500 8,46.19 - 5,630.69 5,539.08 1,500 11,261.79 1,071.89 14,077.39 13,838.29 16,804.69 16,892.99 16,804.69 15,838.29 16,804.69 15,838.29 15,804.69 15,804.	1,000 5,007.47 5,1000 5,007.47 5,1000 5,000 11,261.79 11						006	F 067.41			785.91	4,709.16	(76.	75)	
1,500 8,446.19 - 5,630.59 5,539.08 1,500 8,446.19 - 6,446.19 8,305.49 2,000 11,261.79 - 11,261.79 11,261.79 11,261.79 11,261.79 11,261.79 11,071.89 16,892.99 16,604.69 16,892.99 16,604.69 16,892.99 16,604.69 16,892.99 16,604.69 16,892.99 16,604.69 16,892.99 16,604.69 16,892.99 16,604.69 16,892.99 16,804.69 16,892.99 16,804.69 16,892.99 16,804.69 16,892.99 16,804.69 16,892.99 16,892.99 16,804.69 16,892.99 16,804.69 16,892.99 16,804.69 16,892.99 16,804.69 16,892.99 16,804.69 16,892.99 16,804.69 16,892.9	1,500 8,446.19 - 5,630.59 5,539.08 1,500 8,446.19 - 6,446.19 8,305.49 2,000 11,261.79 - 11,261.79 11,207.89 1,077.89 1,077.89 1,077.89 1,077.89 1,077.89 1,077.89 1,077.89 1,077.89 1,077.89 1,077.89 1,077.89 1,077.89 1,077.89 1,077.89 1,077.89 1,077.89 1,077.89 1,077.89 1,000	1,500 8,446,19 - 5,1500 8,446,19 - 8,1500 11,261,79 - 11,261,79 - 11,261,79 - 11,261,79 - 14,077,39 - 14,077,39 - 14,077,39 - 16,892,39 - 16,892,39 - 16,892,39 - 16,892,39 - 16,892,39 - 16,892,39 - 16,892,39 - 16,892,39 - 16,892,39 - 16,892,39 - 16,892,39 - 16,892,392,39 - 16,892,392,392,392,392,392,392,392,392,392,3						100	74.100,0			067.47	4,985.80	(81	(29	
1,500 8,446,19 - 8,446,19 8,305,49 (2,000 11,261,79 - 11,261,79 11,071,89 (2,500 14,077,39 - 11,261,79 11,071,89 (3,000 16,892,99 - 16,892,99 16,604,69 (6,892,99 16,604,69 (6,892,99 16,604,69 (6,892,99 16,604,69 (6,892,99 16,604,69 (6,892,99 16,604,69 (6,892,99 16,604,69 (6,892,99 16,604,69 (6,892,99 16,604,69 (6,892,99 16,604,69 (6,892,99 16,892,99 16,892,99 (6,892,99 16,892,99 (6,892,99 16,892,99 (6,892,99 16,892,99 (6,892,99 (6,892,99 (6,892,99 (6,892,99 (6,892,99 (6,892,99 (6,892,99 (6,892,99 (6,8	1,500 8,446,19 - 8,446,19 8,305,49 (1,071.89 2,000 11,261.79 - 11,261.79 11,071.89 2,500 14,077.39 - 16,892.99 13,838.29 (6,892.99 16,604.69 (6,892.99 16,604.69 16,892.99 16,604.69 (6,892.99 16,604.69 16,892.99 16,604.69 16,892.99 16,604.69 16,892.99 16,604.69 16,892.99 16,89	1,300 8,446,19 8,2,500 11,261.79 11,200 11,261.79 11,200 14,077.39 14,14,200 16,892.99						00,1	5,630.59			530.59	5,539.08	(6)	3	
2,500 11,261,79 - 11,261,79 11,071,89 2,500 14,077,39 - 14,077,39 13,838,29 16,892,99 16,892,99 16,604,69 16,892,99 16,604,69 16,604,69 16,804,89	2,500 11,261,79 - 11,261,79 11,071,89 2,500 14,077,39 - 14,077,39 13,838,29 16,892,99 16,892,99 16,892,99 16,692,99 16,604,69 16,604,69 16,892,99 16,604,69 16,892,99 16,604,69 16,802,99 16,604,69 16,802,99 16,604,69 16,802,99 16,604,69 16,802,99 16,604,69 16,802,99 16,604,69 16,802,99	2,500 11,261,79 11,250 14,077.39 - 14,077.39 - 14,077.39 - 14,077.39 - 14,077.39 - 14,077.39 - 14,077.39 - 14,077.39 - 14,077.39 - 14,077.39 - 14,077.39 - 14,077.39 - 14,077.39 - 14,077.39 - 14,077.39 - 15,000						000,	8,446.19		80	146.19	8 305 49	. 04.	7	
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Particular Par		<u>₹</u>		[8]		[0]		Cochise (Sierra Vista) [D] [E]	erra Vista [E]		[-]	٢	[6]		Ξ	Ξ
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Color Colo	Residential 5/8 x 3/4 -inch	Rates		Surcharge		(M Gal)	ļ		Surchar	읭	Total	Rep	uttal	∢I	monut	Percent
S 13-36 S						,	↔	13.36	€9	€9	13.36	€>	20.00	↔	6.64	49.70%
Sample S						υπ		20.85	•		20.85		29.13		8.28	39.68%
13.36 3	Present Rates					50 50		50.66			50.02		55.47		14.78	20.13%
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(a) 10 10 10 10 10 10 10 10 10 10 10 10 10	Basic Service Charge:					30		71.95			71.95		91.38		19.43	27.00%
Carlo 10				•		સ ક		82.60	•		82.60		104.35		21.75	26.34%
Carlo Carl	Tier One Breakover (M Gal):		ო			54 45		103.89			93.24		17.32		24.08	25.82%
135 135 135 155	Ter Two Breakover (M Gal):		10			20		114.53	•		114.53		43.26		28.72	25.08%
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1,702.2 1,502.4 1,50						09		135.82			135.82		69.19		33.37	24.57%
\$ 100 0 27 43 8 - 220 98 272 94 51 98 10 34 10 3	Tier Two Rate:			•		92		146.47	•		146.47		82.16		35.70	24.37%
\$ 2000 \$ -2009 - 100	Tier Three Rate		252	•		0 %		157.11			157.11		95.13		38.02	24.20%
\$ 20.00 \$ 250		- 7	067			ç, Ç		757.76 220.08			720.08		:08.10 72.64		40.34	24.05%
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\$ 20.00 \$ 50.00 \$ 646.78						250		540.33	,		540.33		62.01		121.67	22.52%
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99.999 966.13 - 1,070	Tier Oct Brooks (M. C.).		ď			400		89.68	•		859,68	7,	51.07		191.39	22.26%
\$ 1,072.58	Tier Due brospoor (M Cal):		n (450		966.13	,		966.13	÷	90.76		214.62	22.21%
\$ 1,790 \$ 1,7190 \$ 1,440,13 \$ 1,690 \$ 284,34 \$ 1,660 \$ 5 \$ 650 \$ 1,381,93 \$ 1,440,13 \$ 1,690 \$ 2,843,44 \$ 1,660 \$ 5 \$ 750 \$ 1,381,93 \$ 1,990 \$ 1,690 \$ 1,990 \$	Tier Three Breakover (M Cal):	ò	2 6			200		1,072.58	•		1,072.58	. .	110.44		237.86	22.18%
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2.0750	Tier One Rate:			٠		900		1,285.48	•		1,285.48	4	69.82		284.34	22.12%
2.5938	Tier Two Rate:					200		1 408 38	•		408.30		39.51		330.81	22.10%
1,771.28	Tier Three Rate:	100	938	,		25.0		1,430.30	•		1,430.50	o, -	23.13		330.01	22.06%
850 1,817.23 - 1,817.25 2,18.26 400.52 1,000 1,924.18 - 1,924.18 2,347.94 423.76 1,000 2,137.08 - 2,137.08 2,607.32 470.24 1,500 3,201.58 - 2,137.08 2,607.32 470.24 1,500 4,266.08 - 4,266.08 5,201.07 934.99 2,500 5,330.58 - 5,330.58 6,497.94 1,167.36 3,000 6,385.08 - 6,395.08 7,794.82 1,167.36 5,500 5,500 8,25.95 \$ - \$ 25.95 \$ 35.34 \$ \$ 9.39 74 1,000 1		i	}			80		711.00	•		24.45	- 6	20.00		334.03	22.06%
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ю ю				Sta	ndardized Usage:	7.5	69	25.11	+	€>	25.11	69	34.32	ss	9.21	36.66%
₩							Propo	sed Bill at I	ifeline U	sage (3.) M Gal):		24.98			
							Cost of	Service at 1	ifeline U	sage (3.	M Gal):		32.21			
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PPA Consumption Page Succinate Page Consumption Page Con	PPA Consumption Present Relate Relating Property Present Relate Relating Property Present Relating Present	Pich Consumption Present Paths Paths	Secretaring Processor Secretaria Proces		[A]	[B]		[C]		San Manuel	E	[F] Typical Bill	[9]			Ξ	Ξ
Standards	Succidance Control C	Sample Control Contr	Succidentic	Base		ACRIV PPA		Monthly onsumption		Pre	sent Rate	v	Proposed Rates -	pe .		Increase	0
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Average Usage: 7.1	Average Usage: 7.1 \$\$ 43.61 \$\$ 5.60 \$\$ 5.60 \$\$ \$\$ 15.00 \$\$ \$\$ \$\$ 4.83 \$\$ \$\$ 5.60 \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$	Average Usage: 7.1 \$ 4.05.1 \$ 5.00 \$	Average Usage: 7.1 \$ 43.61 \$ 5.00 \$ 5		_			900	7, C	75.44.01	•	2,544.31	4,32,4	46.),' ,	81,64	70.02%
Average Usage: 7.1 \$ 43.61 \$ - \$ 137.62 \$ 3.48.73 \$ 5.766 86 \$ 2.278.15 \$ 5.766 86 \$ 2.278.15 \$ 5.766 86 \$ 2.278.15 \$ 5.766 88 \$ 2.378.15 \$ 5.766 88 \$ 2.378.15 \$ 5.766 88 \$ 2.378.15 \$ 5.766 88 \$ 2.378.15 \$ 5.766 88 \$ 2.378.15 \$ 5.766 88 \$ 2.378.15 \$ 5.766 88 \$ 2.378.15 \$ 5.766 88 \$ 2.378.15 \$ 5.766 88 \$ 2.378.15 \$ 5.766 88 \$ 2.378.15 \$ 2.500 \$ 4.233.15 \$ - \$ 4.233.15 \$ 7.207.82 \$ 2.974.67 \$ 4.465.97 \$ 2.000 \$ 4.233.15 \$ - \$ 4.367.25 \$ 14.412.51 \$ 5.957.26 \$ 2.500 \$ 10.566.30 \$ - \$ 10.566.30 \$ 18.014.85 \$ 7.448.55 \$ 3.000 \$ 12.677.35 \$ - \$ 4.367.35 \$ 21.617.19 \$ 8.939.85 \$ 15.08 \$ 44.83 \$ - \$ 44.83 \$ 60.77 \$ \$ 15.94 \$ 15.94 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	Average Usage: 7.1 \$ 43.61 \$ - \$ 43.67 \$ \$ 44.83 \$ \$ 15.04 Average Usage: 7.1 \$ 44.83 \$ - \$ 44.83 \$ 60.77 Proposed Bill at Lifeline Usage (3.0 M Gal): \$ 40.49 Proposed Bill at Lifeline Usage: 7.5 \$ Cost Discount at Lifeline Usage: 13.97%	Average Usage: 7.1 \$ 43.61 \$ 5.40.65 \$ 5.40.65 \$ 2.20.00 \$ 3.177.62 \$ 5.90.65 \$ 2.20.00 \$ 3.177.62 \$ 5.90.65 \$ 2.20.00 \$ 3.80.73 \$ 5.90.83 \$ 6.127.12 \$ 2.507.28 \$ 2.507.28 \$ 2.507.28 \$ 3.00.00 \$ 12.677.35 \$ 14.412.51 \$ 5.907.26 \$ 3.00 \$ 12.677.35 \$ 14.67.25 \$ 14.65.57 \$ 14.00 \$ 12.677.35 \$ 14.67.51 \$ 5.907.26 \$ 1.500 \$ 12.677.35 \$ 14.67.51 \$ 15.00 \$ 12.677.35 \$ 14.67.51 \$ 12.677.35 \$ 14.67.51 \$ 12.677.35 \$ 14.67.51 \$ 12.677.35 \$ 14.67.51 \$ 12.677.35 \$ 14.67.51 \$ 12.677.35 \$ 14.67.51 \$ 12.677.35 \$ 14.67.51 \$ 12.677.35 \$ 14.67.51 \$ 12.677.35 \$ 14.67.51 \$ 12.677.35 \$ 14.67.51 \$ 12.677.35 \$ 14.67.51 \$ 12.677.35 \$ 14.67.51 \$ 12.677.35 \$ 14.67.51 \$ 12.677.35 \$ 14.675.37 \$ 14.6	Average Usage: 7.1 \$ 43.61 \$ 5.00 Cost O'Service at Lifeline Usage: 7.5 \$ 40.65 \$ 5.00 Cost O'Service at Lifeline Usage: 7.5 \$ 44.83 \$ 6.077 \$ \$ 40.65 \$ \$ 6.00 Cost O'Service at Lifeline Usage: 13.97%		0 00			2 630	7,7	33.4		7,733.41	4, n	.18	. · ·	30.7	70.07%
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3810.94 - 3,133.15 - 1,271.22 - 2,576.41 - 1,000 - 3,433.15 - 1,207.82 - 1,008.82 - 1,00	900 3,810.94 - 3,810.94 - 5,127.12 2,576.41 1,000 4,233.15 - 4,233.15 7,207.82 2,974.67 1,000 8,452.5 - 6,344.20 10,810.16 4,465.97 2,000 8,452.5 - 10,566.30 10,566.30 10,566.30 10,566.30 12,677.35 2,1617.19 8,939.85 3,000 12,677.35 - \$ 43.61 \$ 58.69 \$ 15.08 5,4 \$ 37.82 \$ 44.83 \$ 60.77 \$ \$ 15.94 \$ 15.94 \$ Cost of Service at Lifeline Usage (3.0 M Gal); \$ 34.83 \$ Cost of Service at Lifeline Usage: 13.97%	900 3,810.94 - 3,810.94 - 1,207.82 2,676.41 1,000 4,233.15 - 4,233.15 7,207.82 2,974.67 1,500 8,452.25 - 6,344.20 10,810.16 4,465.97 2,000 8,452.25 - 8,455.25 14,412.51 2,974.67 7,207.82 1,677.35 - 12,677.35 2,1617.19 8,939.85 1,500 7,5 \$ 44.83 \$ - \$ 44.83 \$ 60.77 \$ \$ 15.94 \$ 7.5 \$ \$ 44.83 \$ - \$ \$ 44.83 \$ 60.77 \$ \$ 15.94 \$ 7.5 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	900 3,810,94 - 3,810,94 - 1,000 4,233,15 - 1,207,82 - 1,000 4,233,15 - 1,207,82 - 1,007,82 - 1,000 8,423,15 - 1,207,82 - 1,000 8,425,25 - 6,344,20 10,810,16 4,465,97 2,000 10,566,30 - 10,566,30 10,666,30 10					950		000.73		2,300.73	0,4	6 5	7 c	0.10	70.16%
1,000 4,233.15 - 4,231.67 7,207.82 2,974.67 1,500 6,344.20 - 6,344.20 10,810.16 4,465.97 2,000 10,566.30 - 10,566.30 18,014.85 7,448.55 3,000 12,677.35 - 12,677.35 21,617.19 8,939.85 7,7 8,43.81 8 - \$ 43.61 \$ 54.82 \$ 48.82 \$ 11,00 7.5 \$ 44.83 \$ 60.77 \$ 15.94 8.000 10,560.30 1	1,000 4,233.15 - 4,231.67 7,207.82 2,974.67 1,500 6,344.20 - 6,344.20 10,810.16 4,465.97 2,000 10,566.30 - 10,566.30 18,014.85 7,448.55 3,000 12,677.35 - 12,677.35 21,617.19 8,939.85 7,7 8 3,782 \$ 43.61 \$ 5.8 69 \$ 11,00 7.5 \$ 44.83 \$ 60.77 \$ 15.94 8.75 \$ 44.83 \$ 60.77 \$ 15.94 8.75 \$ 60.77 \$ 15.94 8.99 \$ 13.97%	1,000 4,233,15 - 4,242,25 7,207.82 2,974,67 1,500 6,344,20 - 6,344,20 10,810.16 4,465,97 2,000 10,566,30 - 10,566,30 18,014.85 7,407.85 2,974,67 2,000 10,566,30 - 10,566,30 18,014.85 7,448.55 3,000 12,677.35 - 12,677.35 21,617.19 8,939.85 7,1 \$ 43.61 \$ - \$ 43.61 \$ 58.69 \$ \$ 15.08 5,4 \$ \$ 37.82 \$ + 48.82 \$ 11,00 \$ 7.5 \$ 44.83 \$ 60.77 \$ \$ 15.94 \$ \$ 7.5 \$ \$ 44.83 \$ 60.77 \$ \$ 15.94 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,000 4,233.15 - 5,010.34 0,407.59 2,074.67 1,500 6,344.20 - 6,344.20 10,810.16 4,465.97 2,000 12,677.35 - 10,566.30 18,014.85 7,207.82 3,000 12,677.35 - 12,677.35 21,617.19 8,939.85 7,48.55 3,000 12,677.35 - 12,677.35 21,617.19 8,939.85 7,48.55 2,4 4,83 \$ - \$ 43.61 \$ 58.69 \$ \$ 15.08 5,4 \$ \$ 44.83 \$ - \$ 44.83 \$ 60.77 \$ \$ 15.94 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$					86	ນ ຜ	30.00		2,033.03	2 0	71.	יי ט'י	07:17	70.21%
1,000 6,344.20 - 4,535.19 7,207.82 2,574.87 1,500 6,344.20 - 6,344.20 10,810.16 4,465.97 2,000 8,455.25 - 10,566.30 10,810.16 5,957.26 2,500 10,566.30 - 10,566.30 18,014.85 7,448.55 3,000 12,677.35 - 12,677.35 21,617.19 8,939.85 7.1 \$ 43.61 \$ - \$ 43.61 \$ 58.69 \$ 15.08 5.4 \$ 37.82 \$ + 48.82 \$ 11.00 7.5 \$ 44.83 \$ 60.77 \$ 15.94 Proposed Bill at Lifeline Usage (3.0 M Gal): \$ 40.49 % Cost of Service at Lifeline Usage: 13.97%	1,000 6,344.20 - 6,4.23.19 7,207.82 2,574.87 1,500 6,344.20 - 6,344.20 10,810.16 4,465.26 2,000 8,455.25 - 10,566.30 10,810.16 5,957.26 2,500 10,566.30 - 10,566.30 18,014.85 7,448.55 3,000 12,677.35 - 12,677.35 21,617.19 8,939.85 7.1 \$ 43.61 \$ - \$ 43.61 \$ 58.69 \$ 15.08 5.4 \$ 37.82 \$ + 48.82 \$ 11.00 7.5 \$ 44.83 \$ 60.77 \$ 15.94 Proposed Bill at Lifeline Usage (3.0 M Gal): \$ 40.49 \$ 0.0st of Service at Lifeline Usage: 13.97%	7.1 \$ 43.61 \$ - \$ 4.82 \$ \$ 48.62 \$ \$ 49.60 \$ \$ 5.44 \$ \$ \$ \$ 7.207.82 \$ 2.500 \$ 6.344.20 - 6.344.20 \$ 10.810.16 \$ 4.65.26 \$ 2.500 \$ 6.344.20 - 6.566.30 \$ 10.810.16 \$ 6.957.26 \$ 2.500 \$ 10.566.30 - 10.566.30 \$ 10.04.85 \$ 7.448.55 \$ 3.000 \$ 12.677.35 - 12.677.35 \$ 21,617.19 \$ 8,939.85 \$ 12.677.35 - \$ 43.61 \$ 58.69 \$ \$ 15.08 \$ 5.4 \$ 37.82 \$ - \$ 37.82 \$ 48.82 \$ \$ 11.00 \$ 7.5 \$ 44.83 \$ - \$ 44.83 \$ 60.77 \$ \$ 15.94 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	7.1 \$ 43.61 \$ - \$ 4.83 \$ 60.77 \$ 15.04 \$ 15.04 \$ 1.00 \$ 4.85.25 \$ 1.4472.51 \$ 1.407.82 \$ 2.500 \$ 6.344.20 \$ - 6.345.25 \$ 14.472.51 \$ 1.446.597 \$ 2.500 \$ 10,566.30 \$ - 10,566.30 \$ 18,014.85 \$ 12,677.35 \$ - 12,677.35 \$ 21,617.19 \$ 8,939.85 \$ 12,677.35 \$ - \$ 43.61 \$ 58.69 \$ \$ 15.08 \$ 5.4 \$ 37.82 \$ - \$ 37.82 \$ 48.82 \$ \$ 11.00 \$ 7.5 \$ 44.83 \$ - \$ 44.83 \$ 60.77 \$ \$ 15.94 \$ 15.94 \$ \$ 7.500 \$ 7.					96	0.4	10.04		40.010,84	0 0	ςς.	מים	74.07	70.03%
7.1 \$ 43.61 \$ - \$ 47.82 \$ 14.412.51 \$ 5957.26 \$ 3,000 \$ 10,566.30 \$ 16,014.85 \$ 1,4412.51 \$ 5,957.26 \$ 3,000 \$ 12,677.35 \$ - \$ 12,677.35 \$ 21,617.19 \$ 8,939.85 \$ 1,567.35 \$ 21,617.19 \$ 8,939.85 \$ 1,577.35 \$ - \$ \$ 43.61 \$ 58.69 \$ \$ 15.08 \$ 1,500 \$	7.1 \$ 43.61 \$ - \$ 47.82 \$ 60.77 \$ 15.94 \$ 54.85 \$ 1.00 \$ 1	7.1 \$ 43.61 \$ - \$ 5.967.26	7.1 \$ 43.61 \$ - \$ 17.82 \$ 14.72.51 \$ 1957.26 \$ 3,000 \$ 10,566.30 \$ 10,566.30 \$ 10,617.19 \$ 1,402.31 \$ 1,441.251 \$ 1,566.30 \$ 10,566.30 \$ 1,617.19 \$ 1,503.85 \$ 1,617.19 \$ 1,503.85 \$ 1,617.19 \$ 1,503.85 \$ 1,617.19 \$ 1,504 \$					000,	4. a	200.00		4,233.13	7,40	20.	N 4	76.07	70.27%
2,500 10,566.30 - 10,566.30 18,014.85 7,448.55 3,000 12,573.55 - 12,677.35 21,617.19 8,939.85 12,600 12,677.35 - 12,677.35 21,617.19 8,939.85 7,448.55 3.7.82 \$ 43.61 \$ 58.69 \$ 15.08 5,4 44.83 \$ - \$ 44.83 \$ 60.77 \$ 15.94 Proposed Bill at Lifeline Usage (3.0 M Gal): \$ 40.49 % Cost of Service at Lifeline Usage: 13,97%	2,500 10,566.30 - 10,566.30 18,014.85 7,448.55 3,000 12,677.35 - 12,677.35 21,617.19 8,939.85 7,448.55 3,000 12,677.35 - 12,677.35 21,617.19 8,939.85 7.1 \$ 43.61 \$ - \$ 43.61 \$ 58.69 \$ 15.08 5,4 \$ 37.82 \$ - \$ 44.83 \$ 60.77 \$ 15.94 \$ 15.94 \$ Cost of Service at Lifeline Usage (3.0 M Gal): \$ 34.83 \$ Cost of Discount at Lifeline Usage: 13.97%	2,500 10,566.30 - 10,566.30 18,014.85 7,448.55 3,000 12,577.35 - 12,677.35 21,617.19 7,448.55 3,000 12,577.35 - 12,677.35 21,617.19 8,939.85 7,1 \$ 43.61 \$ - \$ 43.61 \$ 58.69 \$ 15.08 5,4 \$ 37.82 \$ - \$ 37.82 \$ 44.83 \$ 60.77 \$ 15.94 Proposed Bill at Lifeline Usage (3.0 M Gal): \$ 34.83 Cost of Service at Lifeline Usage (3.0 M Gal): \$ 40.49 % Cost Discount at Lifeline Usage: 13.97%	2,500 10,566.30 10,566.30 18,014.85 7,448.55 3,000 12,577.35 - 12,677.35 21,617.19 8,939.85 7,448.55 3,000 12,577.35 - 12,677.35 21,617.19 8,939.85 7,1 \$ 43.61 \$ - \$ 43.61 \$ 58.69 \$ 15.08 5,4 \$ 37.82 \$ - \$ 37.82 \$ 44.83 \$ 60.77 \$ 15.94 Proposed Bill at Lifeline Usage (3.0 M Gal): \$ 34.83 Cost of Service at Lifeline Usage (3.0 M Gal): \$ 40.49 % Cost Discount at Lifeline Usage: 13.97%					000,	200	744.60		0,244.20	210'01	0.5	4 (10.00	70.33%
7.1 \$ 43.61 \$ - 10,506.30 18,014.85 7,448.55 3,000 12,677.35 - 12,677.35 21,617.19 8,939.85 7,1 \$ 43.61 \$ - \$ 43.61 \$ 58.69 \$ 15.08 5,4 \$ 37.82 \$ - \$ 37.82 \$ 48.82 \$ 11.00 7.5 \$ 44.83 \$ - \$ 44.83 \$ 60.77 \$ 15.94 Proposed Bill at Lifeline Usage (3.0 M Gal): \$ 40.49 % Cost of Service at Lifeline Usage: 13.97%	7.1 \$ 43.61 \$ - 10,506.30 18,014.85 7,448.55 3,000 12,677.35 - 12,677.35 21,617.19 8,939.85 7.1 \$ 43.61 \$ - \$ 43.61 \$ 58.69 \$ 15.08 5.4 \$ 37.82 \$ - \$ 37.82 \$ 48.82 \$ 11.00 7.5 \$ 44.83 \$ 60.77 \$ 15.94 Proposed Bill at Lifeline Usage (3.0 M Gal): \$ 40.49 % Cost of Service at Lifeline Usage: 13.97%	7.1 \$ 43.61 \$ - 10,506.30 18,014.85 7,448.55 3,000 12,677.35 - 12,677.35 21,617.19 8,939.85 7.1 \$ 43.61 \$ - \$ 43.61 \$ 58.69 \$ 15.08 5.4 \$ 37.82 \$ - \$ 37.82 \$ 48.82 \$ 11.00 7.5 \$ 44.83 \$ 60.77 \$ 15.94 Proposed Bill at Lifeline Usage (3.0 M Gal); \$ 40.49 % Cost of Service at Lifeline Usage: 13.97%	7.1 \$ 43.61 \$ - 10,506.30 18,014.85 7,448.55 3,000 12,677.35 - 12,677.35 21,617.19 8,939.85 7.1 \$ 43.61 \$ - \$ 43.61 \$ 58.69 \$ 15.08 5.4 \$ 37.82 \$ - \$ 37.82 \$ 48.82 \$ 11.00 7.5 \$ 44.83 \$ 60.77 \$ 15.94 Proposed Bill at Lifeline Usage (3.0 M Gal): \$ 40.49 % Cost of Service at Lifeline Usage: 13.97%					2,000	χο (55.25	•	8,455.25	14,412		ກໍເ	57.26	/0.46%
5,000 12,677.35 - 12,677.35 21,617.19 8,939.85 7.1 \$ 43.61 \$ 58.69 \$ 15.08 5.4 \$ 37.82 \$ - \$ 37.82 \$ 48.82 \$ 11.00 7.5 \$ 44.83 \$ - \$ 44.83 \$ 60.77 \$ 15.94 Proposed Bill at Lifeline Usage (3.0 M Gal); \$ 40.49 % Cost of Service at Lifeline Usage: 13.97%	5,000 12,677.35 - 12,677.35 21,617.19 8,939.85 7.1 \$ 43.61 \$ 58.69 \$ 15.08 5.4 \$ 37.82 \$ - \$ 37.82 \$ 48.82 \$ 11.00 7.5 \$ 44.83 \$ - \$ 44.83 \$ 60.77 \$ 15.94 Proposed Bill at Lifeline Usage (3.0 M Gal); \$ 40.49 % Cost of Service at Lifeline Usage: 13.97%	5,000 12,677.35 - 12,677.35 21,617.19 8,939.85 7.1 \$ 43.61 \$ 58.69 \$ 15.08 7.2 \$ 44.83 \$ 60.77 \$ 15.94 Proposed Bill at Lifeline Usage (3.0 M Gal); \$ 40.49 % Cost of Service at Lifeline Usage: 13.97%	5,000 12,677.35 - 12,677.35 21,617.19 8,939.85 7.1 \$ 43.61 \$ 58.69 \$ 15.08 5.4 \$ 37.82 \$ 48.82 \$ 48.82 \$ 11.00 7.5 \$ 44.83 \$ 60.77 \$ 15.94 Proposed Bill at Lifeline Usage (3.0 M Gal); \$ 40.49 % Cost of Service at Lifeline Usage: 13.97%					2,300	מָכ	000.00	•	06.996,01	18,012	ξ.	4, 6	48.55	70.49%
7.1 \$ 43.61 \$ - \$ 43.61 \$ 58.69 \$ 15.08 5.4 \$ 37.82 \$ - \$ 37.82 \$ 48.82 \$ 11.00 7.5 \$ 44.83 \$ - \$ 44.83 \$ 60.77 \$ 15.94 Proposed Bill at Lifeline Usage (3.0 M Gal): \$ 34.83 Cost of Service at Lifeline Usage: 13.97%	7.1 \$ 43.61 \$ - \$ 43.61 \$ 58.69 \$ 15.08 5.4 \$ 37.82 \$ - \$ 37.82 \$ 48.82 \$ 11.00 7.5 \$ 44.83 \$ - \$ 44.83 \$ 60.77 \$ 15.94 Proposed Bill at Lifeline Usage (3.0 M Gal): \$ 34.83 Cost of Service at Lifeline Usage: 13.97%	7.1 \$ 43.61 \$ - \$ 43.61 \$ 58.69 \$ 15.08	7.1 \$ 43.61 \$ - \$ 43.61 \$ 58.69 \$ 15.08					000'5	ם וצים	66.77	ı	12,077.33	10,17	<u> </u>	Ď.	28.82 82.82	70.52%
7.1 \$ 43.51 \$ - \$ 43.61 \$ 58.69 \$ 15.08	7.1 \$ 43.51 \$ - \$ 43.61 \$ 58.69 \$ 15.08	7.1 \$ 4.351 \$ - \$ 4.351 \$ 58.59 \$ 15.08 7.5 \$ 44.83 \$ - \$ 47.82 \$ 41.00 7.5 \$ 44.83 \$ - \$ 44.83 \$ 60.77 \$ 15.94 Proposed Bill at Lifeline Usage (3.0 M Gal): \$ 40.49 Cost of Service at Lifeline Usage: 13.97%	7.1 \$ 43.51 \$ - \$ 43.61 \$ 58.59 \$ 15.08 7.5 \$ 44.83 \$ - \$ 47.82 \$ 41.00 7.5 \$ 44.83 \$ - \$ 44.83 \$ 60.77 \$ 15.94 Proposed Bill at Lifeline Usage (3.0 M Gal): \$ 40.49 Cost of Service at Lifeline Usage: 13.97%					,							•	0	
7.5 \$ 44.83 \$ - \$ 44.83 \$ 60.77 \$ 15.94 Proposed Bill at Lifeline Usage (3.0 M Gal): \$ 40.49 % Cost of Service at Lifeline Usage: 13.97%	7.5 \$ 44.83 \$ - \$ 47.02 \$ 15.94 Proposed Bill at Lifeline Usage (3.0 M Gal): \$ 34.83 Cost of Service at Lifeline Usage (3.0 M Gal): \$ 40.49 % Cost Discount at Lifeline Usage: 13.97%	7.5 \$ 44.83 \$ - \$ 47.02 \$ 15.94 Proposed Bill at Lifeline Usage (3.0 M Gal): \$ 34.83 Cost of Service at Lifeline Usage (3.0 M Gal): \$ 40.49 % Cost Discount at Lifeline Usage: 13.97%	7.5 \$ 44.83 \$ 60.77 \$ 15.94 Proposed Bill at Lifeline Usage (3.0 M Gal): \$ 40.49 Cost of Service at Lifeline Usage: 13.97%				Median Usage.	۸.۱						69.		15.08 1.08	34.59%
Proposed Bill at Lifeline Usage (3.0 M Gal): \$ 34.83 Cost of Service at Lifeline Usage (3.0 M Gal): \$ 40.49 % Cost Discount at Lifeline Usage: 13.97%	Proposed Bill at Lifeline Usage (3.0 M Gal): \$ 34.83 Cost of Service at Lifeline Usage (3.0 M Gal): \$ 40.49 % Cost Discount at Lifeline Usage: 13.97%	Proposed Bill at Lifeline Usage (3.0 M Gal): \$ 34.83 Cost of Service at Lifeline Usage (3.0 M Gal): \$ 40.49 % Cost Discount at Lifeline Usage: 13.97%	Proposed Bill at Lifeline Usage (3.0 M Gal): \$ 34.83 Cost of Service at Lifeline Usage (3.0 M Gal): \$ 40.49 % Cost Discount at Lifeline Usage: 13.97%				Standarding Lines.	0 h						79.		30.5	29.07%
• •	↔ ₩	७	ю				Standardized Usage:	c.)								15.94	35.57%
₩	↔	€>	69						Proposed	l Bill at Life	line Usage	(3.0 M Gal):		.83			
									Cost of Ser	vice at Life	line Usage	(3.0 M Gal):		.49			
										% Cost Dis	count at L	ifeline Usage:	13	37%			

ARIZONA WATER COMPANY Test Year Ended December 31, 2010

Typical Bill Analysis

5.90% 9.50% 11.33% 11.66% 12.16% 12.22% 12.27% 12.30% 12.36% 12.36% 12.38% 12.54% 12.58% 12.60% 12.63% 12.64% 12.64% 12.65% 12.65% 12.65% 12.66% 11.86% 11.99% 12.09% 12.40% 12.47% 12.61% 12.62% 12.66% 9.56% 9.05% 10.24% 12.66% 12.66% 12.67% 12.67% = Increase 4.02 11.32 19.38 19.38 27.54 39.70 43.76 43.76 43.76 43.76 1120.79 1120.79 1120.79 242.42 282.97 282 728.96 810.05 1,215.49 1,620.93 688.41 3.35 Amount 冝 111.20 183.25 219.27 255.30 291.32 327.34 363.37 399.39 471,44 507,46 543,48 723.60 1,083.84 1,444.07 1,804.30 2,164.54 2,524.77 2,885.01 3,245.24 3,605.48 3,965.71 4,325.94 4,686.18 5,046.41 5,406.65 5,766.88 6,127.12 6,487.35 7,207.82 10,810.16 47.17 40.35 60.77 34.83 42.36 17.78% 18,014.85 21,617.19 Proposed Rates -Rebuttal [9] 64 64 64 42.34 99.88 131.85 163.82 195.79 227.76 259.73 291.70 323.66 355.63 387.60 419.57 1,282.73 1,602.42 1,922.11 2,241.80 2,561.49 2,881.18 3,200.87 3,520.56 3,840.25 451.54 483.51 643.35 963.04 4,159.94 4,479.63 43.05 37.00 55.12 4,799.32 5,119.01 15,988.47 19,185.37 5,438.70 5,758.39 Proposed Bill at Lifeline Usage (3.0 M Gal): Cost of Service at Lifeline Usage (3.0 M Gal): % Cost Discount at Lifeline Usage: 6,397.77 9,594.67 12,791.57 Total E Typical Bill Present Rates Surcharge (E) Oracle 99.88 13.185 163.82 195.79 227.76 229.73 291.70 323.66 355.63 387.60 419.57 451.54 483.51 643.35 1,922.11 1,922.11 1,922.11 1,922.11 1,922.11 1,922.11 3,200.87 3,520.66 3,840.25 4,159.94 4,479.63 43.05 37.00 55.12 19.83 5,758.39 6,397.77 9,594.67 12,791.57 15,988.47 5,438.70 4,799.32 5,119.01 Base ϳ 5 1 15 000 1 Consumption 5.1 4.0 7.5 (M Gal) Monthly <u>ত</u> Median Usage: Average Usage: Standardized Usage: Surcharge ACRM / PPA 亶 ↔ ↔ 19.83 3 10 99,999 4.0922 21.00 3 10 99,999 4.6110 5.7638 5.1151 6.3938 7.2047 Base Rates ₹ 69 69 Tier Three Breakover (M Gal): Tier Three Breakover (M Gal); Tier One Breakover (M Gal): Tier One Breakover (M Gal): Fier Two Breakover (M Gal) Tier Two Breakover (M Gat): Proposed Rates - Rebuttal Residential 5/8 x 3/4 -inch Basic Service Charge; Basic Service Charge: Tier Two Rate: Tier Three Rate: Tier Three Rate: Tier One Rate: Tier One Rate: Tier Two Rate: Present Rates

Percent

Increase

28.34% 28.65% 32.83%

Presidential Sign 3 std -inch President Rate Presid		5	·	2		Ξ		<u></u>	Π	_	Ξ	-	[@]	
Second Constantion Propert Rates Propert				, d	-					Typical	Bill			
Falles Succitation Control Succitation Control		ä	ase	Z dd		Monthly Consumption			Present 1	o dec		Pro	bosed	'
Sample S	Residential 5/8 x 3/4 -inch	R	ites	Surch		(M Gat)		1	Surch	arge	Total	Z W	buttal	
\$ 15.00 \$ 55.0 55.0 55.0 11.20 Gal) 99999						,	↔	15.00	69		15.00		21.00	
\$ 15.00 \$						ռ դ		35.50			35.50	_	46.36	
\$ 15.00 \$ 17.50	Present Rates					3 2 3		97.00			97.00		111.20	
Gal). 99,999 46 158 00 192 00 193 00 193 00 193 00 263 253 253 253 253 253 253 253 253 253 25						25		117,50			117.50		183.25	
\$ 150 \$						30		138.00			138.00		219.27	
Gai) 99,999	Basic Service Charge:	49		4		35		158.50		1	158.50		255.30	
(Gai): 99,999 5.0 220.00 - 199.50 383.73 45 199.50 - 220.00 383.73 45 199.999 5.0 220.00 - 220.00 383.73 45 199.999 5.0 220.00 - 220.00 383.73 45 1000 3 - 220.00 - 220.00 383.73 45 1000 3 - 220.00 - 220.00 383.73 45 1000 3 - 220.00 383.73 45 1000 3 - 220.00 383.73 45 1000 3 - 220.00 383.73 45 1000 3 - 220.00 383.73 45 1000 3 - 220.00 383.73 45 1000 3 - 220.00 383.73 45 1000 3 - 220.00 383.73 45 1000 3 - 220.00 3 -						4		179.00		,	179.00		291.32	
Mode) 99,999 55 240,50 240,50 399,39	Lier One Breakover (M Gal):		666,66			45		199.50		1	199.50		327.34	
\$ 4,1000 \$ - 20,00 \$ 399,39 \$ 399,39 \$ 399,39 \$ 4,1000 \$ - 20,00 \$ 399,39 \$ 399,39 \$ 4,1000 \$ - 20,00 \$ 302,00 \$ - 20,00 \$ 399,39 \$ 399,39 \$ 4,1000 \$ - 20,00 \$ - 20,00 \$ 20,0	Tier Throe Breakover (M Gal):	-, .	666'66			20		220.00			220.00		363.37	
\$ 4,1000 \$ 65	ilel IIIIee Dieakover (IVI Gal);		666,66			92		240.50			240.50		399.39	
\$ 11.00 \$ 1.00 \$	Tier One Rate:			,		9		261.00		,	261.00		435.41	
\$ 2100 \$ 70 93200 507.45 \$ 2100 \$ 70 93250	Tier Two Rate:			•	•	92		281.50			281.50		471.44	
\$ 2100 \$ 3250 - 32550	Tier Three Rate:	•	1000		1	2 2		302.00		,	302.00		507.46	
\$ 2100 \$ 630.00 723.60 733.60 7420.0 733.60 7420.0 733.60 733.		•	3			ર ડ્		322.50			322.50		543.48	
\$ 21.00 \$ 630,00 85,00 630,00						001		425.00			425.00		723.60	
\$ 2100 \$ - 0.040 00 - 0.040 00 - 1.040 00 14407	Proposed Rates - Rebuttal					150		630.00			630.00	-	083.84	
\$ 21.00 \$ - 1,040.00 - 1,040.00 - 1,040.30 350 1245.00 - 1,045.00 2,047.4 400 1655.00 - 1,650.00 2,247.7 400 1650.00 - 1,650.00 2,247.7 \$ 4,6110 \$ - 2,050.00 - 1,040.00 3,050.4 \$ 4,6110 \$ - 2,050.00 - 1,040.00 3,050.4 \$ 7,2047 - 2,050.00 - 2,050.00 3,050.7 \$ 7,047 - 2,050.00 - 2,050.00 1,050.1 \$ 7,047 - 2,050.00 - 2,050.00 1,050.1 \$ 7,047 - 2,050.00 - 2,050.00 1,050.1 \$ 7,004 - 1,000 - 1,000 1,000.1 \$ 7,004 - 1,000 - 1,000 1,000.1 \$ 7,004 - 1,000 1,000.1 \$ 7,004 - 1,000 1,000.1 \$ 7,004 - 1,000 1,000.1 \$ 7,004 - 1,000 1,000.1 \$ 7,000 1,000.1 \$ 7,000 1,000.1 \$ 7,000 1,000.1 \$ 7,000 1,000.1 \$ 7,000 1,000.1 \$ 7,000 1,000.1 \$ 7,000 1,000.1 \$ 7,000 1,000.1 \$ 7,000 1,000.1 \$ 7,						200		835.00		,	835.00		444.07	
\$ 21.00 \$ 1,245.00						790		1,040.00			1,040.00		804.30	
\$ 450 1,555.00 - 1,550.00 - 1,550.00 - 2,554.77 \$ 4,5110 \$ - 2,50.00 - 2,50.00 - 2,50.00 - 3,50.54 \$ 5,50.00 - 2,50.00 - 2,50.00 - 3,50.54 \$ 5,7638	Basic Service Charge:	69				2000		1,245.00			1,245.00		164.54	
\$ 4,6110 \$ - 205.00 - 1,860.00 - 2,835.01 \$ 99,999		•				330		1,450.00			1,450.00		524.77	
\$ 46110 \$ - 2,065.00 - 2,065.00 3,605.48 \$ 550	Tier One Breakover (M Gal):		ო			450		1,860,00			1,655.00		885.01	
\$ 46f10 \$ - 650 2,270.00 - 2,700.00 3,966.71 \$ 5.7638	Tier Two Breakover (M Gal):		5			500		2,000,00			200000,00		243.24	
\$ 4,610 \$ - 650 2,475,00 - 2,475,00 4,595,94 5,503,89 - 650 2,680,00 - 2,680,	Tier Three Breakover (M Gal):	0.	666 66			250		200000			00.000,2		605.46	
\$ 4,6110 \$ - 650						90		2,270.00			2475.00		965.71	
5.7638 - 700 2,885,00 - 2,885,00 5,046,61 7.2047 - 756 3,090,00 - 3,090,00 5,046,65 800 3,295,00 - 3,295,00 5,766,88 800 3,295,00 - 3,590,00 5,766,88 800 3,705,00 - 3,500,00 6,127,12 900 3,705,00 - 3,500,00 6,127,12 900 4,115,00 - 4,115,00 7,207,82 1,500 6,165,00 - 6,165,00 14,412,51 2,500 10,265,00 - 10,265,00 18,014,85 3,000 12,315,00 - 12,315,00 21,617,19 82,503 8 - \$ 28,96 \$ 37,17 83,000 12,315,00 21,617,19 84,775 \$ 45,775 \$ 60,77 84,7796, 86,7796, 86,7796, 86,7796, 87,779	Tier One Rate:					920		20000896			2,473,00		323.34	
7.2047 - 750 3,090,00 - 2,090,00 5,406.65 850 3,090,00 - 3,090,00 5,406.65 850 3,090,00 - 3,090,00 5,706.86 850 3,090,00 - 3,090,00 5,706.86 1,000 3,705,00 - 3,705,00 6,497.35 1,000 4,115,00 - 4,115,00 7,207.82 2,000 8,215,00 - 6,165,00 10,810.16 2,000 8,215,00 - 6,165,00 10,810.16 2,500 10,265,00 - 10,265,00 14,412.51 2,500 10,265,00 - 10,265,00 14,412.11 2,500 10,265,00 - 10,265,00 14,412.11 2,500 10,265,00 - 10,265,00 14,412.11 2,500 10,265,00 - 10,265,00 14,412.11 2,500 10,265,00 10,265,00 14,412.11 2,500 10,265,00 10,265,00 10,265,00 11,	Tier Two Rate:					200		2,000.00			2,000,00		000.10	
860 3,295.00 5,766.88 850 3,295.00 6,487.35 1,000 4,115.00 - 3,705.00 6,487.35 1,000 4,115.00 - 4,115.00 7,207.82 1,500 8,215.00 - 10,265.00 14,412.51 2,500 10,265.00 - 10,265.00 14,412.51 2,500 10,265.00 - 10,265.00 18,014.85 3,000 12,315.00 - 12,315.00 21,617.19 Average Usage: 3,4 \$ 28.96 \$ - \$ 25.53 \$ 32.84 Standardized Usage: 2,6 \$ 45.75 \$ 60.77 Proposed Bill at Lifeline Usage (3.0 M Gal); \$ 64.23 % Cost of Service at Lifeline Usage (3.0 M Gal); \$ 64.23 % Cost Discount at Lifeline Usage: 45,77%	Tier Three Rate:	-	7.2047		•	750		3,000.00			3,000,00		040.4- 406.65	
850 3,500.00 - 3,500.00 6,127.12 900 3,705.00 6,127.12 900 3,705.00 - 3,705.00 6,487.35 1,000 6,165.00 1,1500 7,207.82 4,115.00 - 6,165.00 10,810.16 2,000 10,265.00 10,265.00 10,265.00 11,265.00 11,265.00 12,315.00 - 12,315.00 21,617.19 2,6 \$ 28.96 \$ 37.17 2,6 \$ 45.75 \$ 60.77 Proposed Bill at Lifeline Usage (3.0 M Gal); \$ 64.23 % Cost of Service at Lifeline Usage (3.0 M Gal); \$ 64.23 % Cost Discount at Lifeline Usage: 45.77%						800		3 295 00			3 295 00		766.88	
3.705.00 - 3,705.00 6,487.35 1,000 4,115.00 - 4,115.00 7,207.82 1,500 8,145.00 - 4,115.00 7,207.82 1,500 8,215.00 - 6,165.00 10,810.16 2,500 10,265.00 10,810.16 3,000 1,265.00 - 10,265.00 14,412.51 3,000 1,265.00 - 10,265.00 14,412.51 3,000 1,265.00 - 10,265.00 14,412.51 3,000 1,265.00 - 12,315.00 2,1617.19 3,4 \$ 28.96 \$ 37.17 2,6 \$ 25.53 \$ - \$ 28.96 \$ 37.17 2,5 \$ 45.75 \$ 60.77 Proposed Bill at Lifeline Usage (3.0 M Gal); \$ 64.23 Cost of Service at Lifeline Usage (3.0 M Gal); \$ 64.23						850		3 500 00			3,500,00		127.12	
1,000 4,115.00 - 4,115.00 7,207.82 1,500 6,165.00 - 6,165.00 10,810.16 2,500 10,265.00 - 10,265.00 10,810.16 3,000 12,315.00 - 10,265.00 18,014.85 3,000 12,315.00 - 12,315.00 21,617.19 2,6 \$ 28.96 \$ 37.17 2,6 \$ 45.75 \$ - \$ 28.96 \$ 37.17 2,6 \$ 45.75 \$ - \$ 45.75 \$ 60.77 Proposed Bill at Lifeline Usage (3.0 M Gal); \$ 64.23 % Cost of Service at Lifeline Usage (3.0 M Gal); \$ 64.23 % Cost Discount at Lifeline Usage: 45.77%						006		3 705 00			2,200.00		121.12	
1,500						000		1,100.00			2,200		407.33	
2,000 8,215.00 10,265.00 10,265.00 10,265.00 10,265.00 11,215.00 1						1,500		6 165 00			6 165 00	•	207.82 810.16	
2,500 10,265.00 10,265.00 18,014.85 3,000 12,315.00 - 12,315.00 21,617.19 2.6 \$ 28.96 \$ 37.17 2.6 \$ 45.75 \$ - \$ 25.53 \$ 32.84 7.5 \$ 45.75 \$ 60.77 Proposed Bill at Lifeline Usage (3.0 M Gal); \$ 64.23 \$ Cost of Service at Lifeline Usage (3.0 M Gal); \$ 64.23 \$ % Cost Discount at Lifeline Usage: 45.77%						2000		8 215 00			8 245 00	2 5	410.10	
3,000 12,315.00 - 12,315.00 21,617.19 3,4 \$ 28.96 \$. \$ 28.96 \$ 37.17 2.6 \$ 45.75 \$. \$ 45.75 \$ 60.77 Proposed Bill at Lifeline Usage (3.0 M Gal); \$ 64.23 Cost of Service at Lifeline Usage (3.0 M Gal); \$ 64.23 % Cost Discount at Lifeline Usage: 45.77%						2,500	•	0.265.00			10.265.00	įα	014.85	
3.4 \$ 28.96 \$ - \$ 28.96 \$ 37.17 2.6 \$ 25.53 \$ - \$ 25.53 \$ 32.84 7.5 \$ 45.75 \$ - \$ 45.75 \$ 60.77 Proposed Bill at Lifeline Usage (3.0 M Gal); \$ 64.23 % Cost of Service at Lifeline Usage; 3.0 M Gal); \$ 64.23 % Cost Discount at Lifeline Usage: 45.77%						3,000		2,315,00			12,315,00	2.5	617.19	
3.4 \$ 28.96 \$. \$ 28.96 \$ 37.17 2.6 \$ 25.53 \$. \$ 25.53 \$ 32.84 7.5 \$ 45.75 \$. \$ 45.75 \$ 60.77 Proposed Bill at Lifeline Usage (3.0 M Gal); \$ 64.23 % Cost of Service at Lifeline Usage (3.0 M Gal); \$ 64.23 % Cost Discount at Lifeline Usage: 45.77%												i	2	
2.6 \$ 25.53 \$ - \$ 25.53 \$ 32.84 7.5 \$ 45.75 \$ - \$ 45.75 \$ 60.77 Proposed Bill at Lifeline Usage (3.0 M Gal); \$ 34.83 Cost of Service at Lifeline Usage (3.0 M Gal); \$ 64.23 % Cost Discount at Lifeline Usage: 45.77%					Average Usage:	4.6	69	28.96	€:	ε	28 96		37 17	¥
7.5 \$ 45.75 \$ 60.77 Proposed Bill at Lifeline Usage (3.0 M Gal); \$ 34.83 Cost of Service at Lifeline Usage (3.0 M Gal); \$ 64.23 % Cost Discount at Lifeline Usage: 45.77%					Median Usage:	2.6	• •	25.53			25.53		32.84	÷ €
• • •					Standardized Usage:	7.5	· 69	45.75			45.75		60.77	•
э 							Ċ	0	:	(•		
→							Propo	Sed Bill at I	ifeline t	Jsage (3	OM Gal):	છ ∀	34.83	
								% Cost	Discount	t at Lifeli	ne Usage:	÷	45.77%	

40.00% 30.59% 45.36% 55.36% 60.17% 60.07% 66.07% 66.07% 66.07% 66.07% 772.94% 773.49% 773.49% 774.12% 774.12% 774.12% 774.12% 774.12% 774.12% 775.04% 775.06% 775.06% 775.06% 775.10% 775.10% 775.10% 775.10% 775.10% 775.10%

6.00 10.86 34.70 50.23 65.75 81.27 96.80 1123.22 127.84 143.37 177.84 120.96 220.98 220.98 220.98 609.07 1,074.77 1,074.77 1,074.77 1,074.77 1,085.71 1,085.71 1,085.71 1,085.71 2,477.88 2,477.

## ACRAM Monthly Typical Bill Proposed Acroname Proposed			₹		<u>e</u>		0		Winkelman [D]	man (E)		Œ	0		-	Ξ	Ξ
Part Part																	:
State Pot					ACRM		Monthly			Ţ	pical Bil		Propo	, de		Increas	Œ.
Figure F			Bas	ě	PPA		onsumption		ā	esent Ra	ites		Rates		ļ		
Control of the cont	ď	sidential 5/8 x 3/4 -inch	Rat	SI	Surchard		(M Gal)		1	Surcharg		otal	Rebn	ttal	7	mount	Percent
S 14,64 S								69	14.84	· 69	69	14.84		00.6	49	4.16	28.03%
S							տ դ		22.79			22.79	7 L	9.87		7.08	31.07%
1464 5 1464 5 16 16 16 16 16 16 16	ā	esent Rates					2 5		54 47			54 42) h	3.12		18.69	34.35%
14, 14, 14, 15, 14, 14, 14, 14, 14, 14, 14, 14, 14, 14							25		65.72	٠		65.72	- 60	8.56		22.84	34.75%
14							30		77.02	•		77.02	9	4.01		26.99	35.04%
Carlotter Carl		Basic Service Charge:					35		88.32	,		88.32	1	9.45		31.14	35.26%
10 10 10 10 10 10 10 10							40		99.61	•		99.61	13	4.90		35.28	35.42%
California Cal		Tier One Breakover (M Gal):		ო			45		110.91	•		110.91	15	0.34		39.43	35.55%
1,475 1,47		Tier Two Breakover (M Gal):		10			20		122.21	٠		122.21	16	5.79		43.58	35.66%
\$ 1,4466 \$. 66 1670 . 1674 0 . 168 68 5187 2,2595		Tier Three Breakover (M Gal):	တ	666'6			52		133.51	٠		133.51	18	1.23		47.73	35.75%
\$ 1900 \$ - 16540 \$ 17.27 \$ 560 \$ 16740 \$ 5 . 16840 \$ 27.57 \$ 6617 \$ 27.57 \$ 6617 \$ 27.55 \$. 1.8074							09		144.80	1		144.80	19	6.68		51.87	35.82%
1.8074 - 77 118.70 - 167.40 227.87 66177 6718.70 - 167.40 223.61 64.31 659.13 669.17 64.31 659.13 669.17 64.31 659.13 669.17 64.31 659.13 669.		Tier One Rate:					92		156.10	•		156.10	21	2.12		56.02	35.89%
2.2596		Tier Two Rate:	_	8074			9		167.40	•		167.40	22	7.57		60.17	35.94%
1900 248 if 3.20 23 18.00		Tier Three Rate:	2	.2595			75		178.70	,		178.70	24	3.01		64.31	35.99%
150							100		235.18	•		235.18	32	0.23		85.05	36.16%
Gal): 3 200 46113 - 46113 - 46113 - 46113 - 46113 - 46113 - 46113 - 46113 - 46113 - 46113 - 46113 - 46113 - 46113 - 68708 - 8900 - 8900 - 8900 - 8900 - 2004 - 20	1						150		348.16	•		348.16	47	4.68		126.52	36.34%
\$ 19.00 \$	ā.	roposed Rates - Rebuttal					200		461.13	•		461.13	62	9.13		168.00	36.43%
\$ 19.00 \$ 0.00 687.08 - 0.00 70 8 938.03 250.594 \$ 1.00 \$ 0.00 687.08 - 0.00 70 8 938.03 250.594 \$ 1.00 \$ 0.00 687.09 - 0.00 70 8 938.03 250.594 \$ 1.00 \$ 0.00 687.0							250		574.11	•		574.11	78	3.58		209.47	36.49%
\$ 19.00 \$							300		687.08	٠		687.08	93	8.03		250.94	36.52%
\$ 19730 - 1746 92 3338 9 10 99,999 \$ 1,999 \$ 1,999 \$		Basic Service Charge:					350		800.06	•		800.06	1,09	2.47		292.41	36.55%
\$ 1,086.01 1,108.01 1		C THE CONTRACT OF THE CONTRACT		c			400		913.03	•	•	913.03	1,24	6.92		333.89	30.57%
\$ 19769 \$ -0.00 1,136,39 -1,135,30 -		Tier One Breakover (M Gal):		ກຸ			450		1,026.01			1026.01	04,1	7.5.		3/0.30	30.00%
\$ 19789 \$ -0 000 1,040 43 1844, 1 170 120 499.78 1844, 1 170 120 499.78 1844, 1 170 120 499.78 1844, 1 150 120 120 120 120 120 120 120 120 120 12		Her I wo Breakover (M Gal):	•	0 00			200		1,138.98		- `	138.98	3 5	5.82		410.03	20.00%
\$ 19769 \$ - 650 1,47739 - 1,47751 2,019,11 541,28 2,4712 - 770 1,590 8 - 1,590 8 - 1,590 8 2,736 1 592,82 3,0890 - 1,816.83 - 1,703 8 2,422.50 665 7 1,000 2,042 7 2 2,731 8 2,731 0 703,14 6 65 7 2,000 2,042 7 3 2,948 1 6,4477 1,246.28 2,000 4,528.23 - 1,528.13 1,002 9 831,56 2,000 4,528.23 - 1,582 3 6,183.25 2,000 4,528.23 - 1,582 3 6,183.25 2,000 4,528.23 - 1,582 3 6,183.25 2,000 4,528.23 - 1,587.73 9,278.20 Average Usage: 9,4 \$ 30.74 \$ - 5 30.74 \$ 40.74 Standardized Usage: 6,6 \$ 2,731 \$ 36.05 Proposed Bill at Lifeline Usage (3.0 M Gal): \$ 3.995%		ilei tiiree bieakovei (ivi Gai).	ח	2,933			000		1,251.95		- •	36.1.30	1,1	0.20		450.30	36.62%
2.4712 - 770 1,590.88 - 1,590.88 2,173.61 582.72 3.0890 - 1,703.86 2,228.05 665.42 0 644.20 1,929.81 - 1,929.81 2,538.05 665.67 707.14 1,000 2,268.73 - 2,268.73 3,100.29 1,1246.28 1,500 2,268.73 - 2,268.73 3,100.29 1,1246.28 1,500 2,6		Tier One Rate					920		1 477 01	, ,		477 91	5,0	9.16		541.25	36.62%
3.0890 - 750 1,703.86 - 1,703.86 2,328.05 6624.20 1,1703.86 1,703.86 2,328.05 665.67 777.14 850 1,929.81 - 1,929.81 2,639.95 7707.14 900 2,042.78 - 2,042.78 2,791.40 831.56 1,500 2,248.73 - 2,248.73 1,002.99 831.56 1,500 3,398.48 - 4,644.77 1,446.28 2,000 4,528.23 - 4,528.23 6,189.25 1,661.01 2,000 4,528.23 - 5,667.98 7,733.72 2,075.74 3,000 6,787.73 - 5,67.98 - 5,67.98 7,733.72 2,075.74 3,000 6,787.73 - 5,67.98 - 5,67.98 7,733.72 2,490.46 8,874		Tier Two Rate					200		1 590 88			590.88	2,0	3.61		582.72	36.63%
1,703.00		Tion These Date:	4 0	7000			9 9		4 703 060	•		20.000	- 10	20.0		624.20	36.63%
900 1,929.81 - 1,929.81 2,636.95 707.14 900 2,268.73 - 1,929.81 2,636.95 707.14 900 2,268.73 - 2,042.78 2,791.40 831.56 1,500 4,528.23 - 2,268.73 3,100.29 1,246.28 2,500 4,528.23 - 4,528.23 6,189.25 1,661.01 2,500 5,657.98 - 5,657.98 7,733.72 2,075.74 3,000 6,787.73 - 6,787.73 9,278.20 2,490.46 6,6 \$ 25.75 \$ - \$ 30.74 \$ 40.74 \$ \$ 10.00 6,6 \$ \$ 27.31 \$ - \$ 25.75 \$ 339.14 \$ \$ 10.00 2,490.46			9	0690			200		1,703.85	,	- •	00.00	2,52	0.00		024.20	36.64%
900 2,042.78 2,731,40 748.61 1,000 2,042.78 - 2,042.78 2,741,40 748.61 1,000 2,288.73 3,100.29 748.61 1,500 4,528.23 - 2,268.73 3,100.29 1,246.28 2,000 4,528.23 - 4,528.23 6,188.25 1,661.01 2,500 5,657.98 7,733.72 2,075.74 3,000 6,787.73 - 6,787.73 9,278.20 2,490.46 6,6 \$ 25.75 \$ - \$ 25.75 \$ 33.91 \$ \$ 81.77 7.5 \$ 27.31 \$ 36.05 \$ \$ 87.74 Proposed Bill at Lifeline Usage (3.0 M Gal): \$ 24.93 Cost of Service at Lifeline Usage: 30.95%							000		1,010.03	•	- •	0.000	2,40	2.30		707.07	26.64%
1,000 2,268.73 3,100.29 17.65.19 1,500 3.388.48 - 2,268.73 3,100.29 17.66.10.1 2,000 4,528.23 - 4,528.23 6,189.25 1.661.01 2,000 6,787.73 - 6,787.73 9,278.20 2,490.46 3,000 6,787.73 - 6,787.73 9,278.20 2,490.46 6,787.73 8, 26,75 \$ 33.91 \$ 10.00 6,6 \$ 25,75 \$ - \$ 25,75 \$ 33.91 \$ 8.17 7.5 \$ 27.31 \$ 26.73 \$ 36.05 Proposed Bill at Lifeline Usage (3.0 M Gal): \$ 36.11 % Cost of Service at Lifeline Usage: 30.95%							820		1,929.81		- (19.536	2,0	0.90		140 04	20.04.70
1,000 2,288.73 - 2,288.73 1,100.29 631.30 1,500 4,528.23 - 4,528.23 6,188.25 1,1661.01 2,000 4,528.23 - 4,528.23 6,188.25 1,1661.01 2,500 5,657.98 7,733.72 2,773.72 2,775.74 3,000 6,787.73 - 6,787.73 9,278.20 2,490.46 6,6 \$ 25.75 \$ - \$ 25.75 \$ 33.91 \$ 8.17 7.5 \$ 27.31 \$ - \$ 27.31 \$ 36.05 \$ 8.74 Proposed Bill at Lifeline Usage (3.0 M Gal): \$ 24.93 Cost of Service at Lifeline Usage: 30.95%									2,042.78	•	7	042.78	2,79	1.40		746.01	20.00%
1,500 3,398.48 - 3,398.48 1,246.28 2,000 4,528.23 - 4,528.23 - 4,528.25 1,661.01 2,500 5,657.98 - 5,657.98 7,733.72 2,075.74 3,000 6,787.73 - 6,787.73 9,278.20 2,490.46 6,787.73 - 5,25.75 \$ 40.74 \$ 10.00 6,6 \$ 25.75 \$ - \$ 25.75 \$ 33.91 \$ 8.17 7.5 \$ 27.31 \$ - \$ 27.31 \$ 36.05 \$ 8.74							1,000		2,268.73	•	7	,268.73	3,10	0.29		831.56	36.65%
2,000 4,528.23 - 4,528.23 6,189.25 1,661.01 2,500 6,787.73 - 5,657.98 7,733.72 2,075.74 3,000 6,787.73 - 6,787.73 9,278.20 2,490.46 6,787.73 5,737.7 9,278.20 2,490.46 6,5 \$ 25.75 \$ - \$ 26.75 \$ 33.91 \$ \$ 10.00 6.6 \$ \$ 27.31 \$ - \$ 27.31 \$ 36.05 \$ \$ 8.17 \$ 7.5 \$ \$ 27.31 \$ 24.93 \$ Cost of Service at Lifeline Usage (3.0 M Gal): \$ 36.11 % Cost Discount at Lifeline Usage: 30.95%							1,500		3,398.48	٠	က	398.48	4.64	4.77		1,246.28	36.67%
2,500 5,657.98 - 5,657.98 7,733.72 2,075.74 3,000 6,787.73 - 6,787.73 9,278.20 2,490.46 5,787.73 - 5,787.73 9,278.20 2,490.46 5 \$ 25.75 \$ - \$ 25.75 \$ 33.91 \$ 8.17 7.5 \$ 27.31 \$ - \$ 27.31 \$ 36.05 \$ 8.74 Proposed Bill at Lifeline Usage (3.0 M Gal): \$ 36.11 % Cost Discount at Lifeline Usage: 30.95%							2,000		4,528.23	r	4	,528.23	6,18	9.25		1,661.01	36.68%
3,000 6,787.73 - 6,787.73 9,278.20 2,490.46 9,4 \$ 30.74 \$ - \$ 30.74 \$ 40.74 \$ 10.00 6,6 \$ 25.75 \$ - \$ 25.75 \$ 33.91 \$ 8.17 7.5 \$ 27.31 \$ - \$ 27.31 \$ 36.05 Proposed Bill at Lifeline Usage (3.0 M Gal): \$ 24.93 Cost of Service at Lifeline Usage (3.0 M Gal): \$ 36.11 % Cost Discount at Lifeline Usage: 30.95%							2,500		5,657.98	•	5	657.98	7,73	3.72		2,075.74	36.69%
9.4 \$ 30.74 \$ - \$ 30.74 \$ 40.74 \$ 10.00 6.6 \$ 25.75 \$ - \$ 25.75 \$ 33.91 \$ 8.17 7.5 \$ 27.31 \$ - \$ 27.31 \$ 36.05 \$ 8.74							3,000		6,787.73	•	9	,787.73	9,27	8.20		2,490.46	36.69%
9.4 \$ 30.74 \$ - \$ 30.74 \$ 10.00 6.6 \$ 25.75 \$ - \$ 25.75 \$ 33.91 \$ 8.17 7.5 \$ 27.31 \$ - \$ 27.31 \$ 36.05 Proposed Bill at Lifeline Usage (3.0 M Gal): \$ 24.93 Cost of Service at Lifeline Usage (3.0 M Gal): \$ 36.11 % Cost Discount at Lifeline Usage: 30.95%																	
9.4 \$ 30.74 \$ 50.74 \$ 40.14 \$ 10.00 \$ 6.6 \$ 25.75 \$ 5 5 5.75 \$ 33.91 \$ 8.74 \$ 7.5 \$ 5.731 \$ 36.05 \$ 8.74 \$ 7.5 \$ 9.75 \$ 9							Č	•		•	•	7		77	6	0	30 630/
6.6 \$ 25.75 \$ - \$ 25.75 \$ 35.91 \$ 0.17 7.5 \$ 27.31 \$ 36.05 \$ 8.74 Proposed Bill at Lifeline Usage (3.0 M Gal): \$ 24.93 Cost of Service at Lifeline Usage: 30.95% % Cost Discount at Lifeline Usage: 30.95%						Average Usage:	4.6	₩ (30.74	,	.,	30.74		0.74	A 6	10.00	32.33%
Proposed Bill at Lifeline Usage (3.0 M Gal): \$ 24.93 Cost of Service at Lifeline Usage: 30.95% % Cost Discount at Lifeline Usage: 30.95%						Median Usage:	9 t 9 t	6 9 (25.75	·	ь е	25.75		3.91	∌ 6	0.17	37.72%
↔ ↔						Standardized Usage:	7.5	₩	27.31	,	,,	127.31		6.05	A	6.74	32.00%
• 69								Propose	ed Bill at Lif	eline Usa	age (3.0	M Gal):		4.93			
								Cost of Se	ervice at Lif	Feline Usa	age (3.0	M Gal):		6.11			
									% Cost D	iscount a	it Lifeline	Usage:	30	.95%			